



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
(703)-726-5500
Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
SANTA CLARA, CA - LEVIS STADIUM
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC02

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH
Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC02

Administrative Information

Status TEMPORARY (Operation from 05/28/2016 to 06/30/2016)

Licensee Name WIN SPORTS S.A.S.

Site Information

SANTA CLARA, CA

Venue Name LEVIS STADIUM
Latitude (NAD 83) 37° 24' 14.0" N
Longitude (NAD 83) 121° 58' 5.0" W
Climate Zone B
Rain Zone 4
Ground Elevation (AMSL) 4.21 m / 13.8 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 55.5° W to 55.5° West Longitude
Azimuth Range 104.8° to 104.8°
Corresponding Elevation Angles 9.9° / 9.9°
Antenna Centerline (AGL) 3.05 m / 10.0 ft

Antenna Information

Transmit

Manufacturer GIGASAT FA-240
Gain / Diameter 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz) -16.0
(dBW/MHz) 8.0

Maximum EIRP (dBW/4 kHz) 26.0
(dBW/MHz) 50.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz) 9M00G7W / 6079.0 - 6083.0 – Band Edges
9M00G7W / 6271.0 - 6360.0 – Band Edges

Max Great Circle Coordination Distance 223.3 km / 138.7 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values**SANTA CLARA, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 37° 24' 14.0" N
 Longitude (NAD 83) 121° 58' 5.0" W
 Ground Elevation (AMSL) 4.21 m / 13.8 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.42	104.61	-10.00	117.00
5	0.50	99.69	-10.00	111.91
10	0.49	94.75	-10.00	112.50
15	1.17	89.82	-10.00	100.00
20	0.25	84.89	-10.00	132.76
25	0.23	79.97	-10.00	135.25
30	0.00	75.05	-10.00	138.51
35	0.25	70.12	-10.00	132.43
40	0.00	65.22	-10.00	138.51
45	0.00	60.32	-10.00	138.51
50	0.00	55.42	-10.00	138.51
55	0.00	50.54	-10.00	138.51
60	0.00	45.68	-9.49	140.37
65	0.00	40.84	-8.28	144.98
70	0.00	36.03	-6.92	150.27
75	0.00	31.28	-5.38	156.73
80	0.00	26.61	-3.63	164.59
85	0.00	22.07	-1.60	174.29
90	0.00	17.77	0.76	186.36
95	0.00	13.93	3.40	201.37
100	0.00	11.02	5.94	216.30
105	0.00	9.93	7.08	223.26
110	0.00	11.18	5.79	215.35
115	0.00	14.18	3.21	200.24
120	0.00	18.07	0.57	185.40
125	0.00	22.40	-1.75	173.51
130	0.00	26.95	-3.76	163.97
135	0.00	31.62	-5.50	156.22
140	0.00	36.38	-7.02	149.84
145	0.00	41.19	-8.37	144.62
150	0.00	46.03	-9.58	140.07
155	0.00	50.89	-10.00	138.51
160	0.00	55.78	-10.00	138.51
165	0.00	60.67	-10.00	138.51
170	0.00	65.58	-10.00	138.51
175	0.00	70.49	-10.00	138.51
180	0.00	75.41	-10.00	138.51
185	0.00	80.33	-10.00	138.51

Coordination Values**SANTA CLARA, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 37° 24' 14.0" N
 Longitude (NAD 83) 121° 58' 5.0" W
 Ground Elevation (AMSL) 4.21 m / 13.8 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.20	85.25	-10.00	138.34
195	0.23	90.18	-10.00	135.38
200	0.56	95.11	-10.00	109.22
205	0.23	100.03	-10.00	134.85
210	0.26	104.96	-10.00	131.92
215	0.28	109.88	-10.00	129.93
220	0.28	114.80	-10.00	129.83
225	0.28	119.71	-10.00	129.94
230	0.26	124.61	-10.00	132.28
235	0.26	129.50	-10.00	131.62
240	0.24	134.37	-10.00	133.76
245	0.21	139.21	-10.00	137.00
250	0.00	143.97	-10.00	138.51
255	0.00	148.72	-10.00	138.51
260	0.00	153.39	-10.00	138.51
265	0.00	157.93	-10.00	138.51
270	0.00	162.23	-10.00	138.51
275	0.00	166.07	-10.00	138.51
280	0.24	169.19	-10.00	133.93
285	0.23	170.31	-10.00	134.60
290	0.20	169.00	-10.00	138.16
295	0.00	165.82	-10.00	138.51
300	0.00	161.93	-10.00	138.51
305	0.27	157.71	-10.00	131.12
310	0.27	153.15	-10.00	130.27
315	0.39	148.48	-10.00	119.58
320	0.26	143.68	-10.00	131.56
325	0.77	138.96	-10.00	100.00
330	0.81	134.10	-10.00	100.00
335	0.70	129.20	-10.00	102.65
340	0.65	124.30	-10.00	104.67
345	0.34	119.36	-10.00	124.04
350	0.53	114.46	-10.00	110.79
355	0.53	109.54	-10.00	110.40



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May 13, 2016

Re: WIN SPORTS S.A.S.
SEATTLE, WA - CENTURYLINK FIELD
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC09

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC09

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

SEATTLE, WA
Venue Name: CENTURYLINK FIELD
Latitude (NAD 83): 47° 35' 39.0" N
Longitude (NAD 83): 122° 19' 49.0" W
Climate Zone: B
Rain Zone: 3
Ground Elevation (AMSL): 5.8 m / 19.0 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 107.5° to 107.5°
Corresponding Elevation Angles: 6.7° / 6.7°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Manufacturer: GIGASAT 240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Transmit

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0
Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0
Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz):
Transmit 6.1 GHz
9M00G7W / 5927.0 - 6048.0 – Band Edges
9M00G7W / 6079.0 - 6211.0 – Band Edges
9M00G7W / 6272.0 - 6330.0 – Band Edges

Max Great Circle Coordination Distance: 163.5 km / 101.6 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**SEATTLE, WA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 47° 35' 39.0" N
 Longitude (NAD 83) 122° 19' 49.0" W
 Ground Elevation (AMSL) 5.8 m / 19.0 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	2.31	107.49	-10.00	100.00
5	2.62	102.51	-10.00	100.00
10	3.06	97.52	-10.00	100.00
15	3.56	92.54	-10.00	100.00
20	4.30	87.54	-10.00	100.00
25	4.37	82.55	-10.00	100.00
30	4.21	77.55	-10.00	100.00
35	3.85	72.56	-10.00	100.00
40	3.67	67.57	-10.00	100.00
45	3.63	62.58	-10.00	100.00
50	3.07	57.61	-10.00	100.00
55	2.67	52.65	-10.00	100.00
60	2.49	47.68	-9.96	100.00
65	2.43	42.72	-8.76	100.00
70	2.47	37.75	-7.42	100.00
75	2.30	32.81	-5.90	100.00
80	2.09	27.90	-4.14	100.00
85	2.14	22.98	-2.03	100.00
90	3.40	17.85	0.71	100.00
95	3.80	12.88	4.25	100.00
100	4.21	7.95	9.48	100.00
105	4.60	3.32	18.96	104.94
110	4.85	3.11	19.69	163.47
115	4.51	7.79	9.72	100.00
120	4.14	12.73	4.38	100.00
125	3.93	17.68	0.81	100.00
130	3.52	22.68	-1.89	100.00
135	3.08	27.69	-4.06	100.00
140	2.47	32.71	-5.87	100.00
145	2.09	37.71	-7.41	100.00
150	1.85	42.69	-8.76	100.00
155	1.73	47.66	-9.95	100.00
160	1.58	52.64	-10.00	100.00
165	0.99	57.64	-10.00	100.00
170	0.55	62.63	-10.00	109.44
175	0.00	67.63	-10.00	138.51
180	0.00	72.59	-10.00	138.51
185	0.66	77.53	-10.00	104.16

Coordination Values**SEATTLE, WA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 47° 35' 39.0" N
 Longitude (NAD 83) 122° 19' 49.0" W
 Ground Elevation (AMSL) 5.8 m / 19.0 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.89	82.50	-10.00	100.00
195	0.95	87.47	-10.00	100.00
200	0.96	92.45	-10.00	100.00
205	0.95	97.42	-10.00	100.00
210	1.17	102.40	-10.00	100.00
215	0.99	107.37	-10.00	100.00
220	1.15	112.35	-10.00	100.00
225	0.98	117.31	-10.00	100.00
230	1.03	122.28	-10.00	100.00
235	1.47	127.27	-10.00	100.00
240	1.45	132.24	-10.00	100.00
245	1.44	137.19	-10.00	100.00
250	1.34	142.13	-10.00	100.00
255	1.13	147.03	-10.00	100.00
260	1.04	151.92	-10.00	100.00
265	0.90	156.75	-10.00	100.00
270	0.51	161.42	-10.00	111.81
275	0.00	165.79	-10.00	138.51
280	0.00	169.89	-10.00	138.51
285	0.00	172.79	-10.00	138.51
290	0.00	172.82	-10.00	138.51
295	0.00	169.95	-10.00	138.51
300	0.00	165.85	-10.00	138.51
305	0.00	161.32	-10.00	138.51
310	0.46	156.72	-10.00	115.62
315	0.55	151.90	-10.00	109.46
320	0.67	147.04	-10.00	103.70
325	1.06	142.17	-10.00	100.00
330	1.40	137.27	-10.00	100.00
335	1.64	132.33	-10.00	100.00
340	1.58	127.36	-10.00	100.00
345	1.21	122.37	-10.00	100.00
350	1.63	117.42	-10.00	100.00
355	2.07	112.46	-10.00	100.00



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May 13, 2016

Re: WIN SPORTS S.A.S.
PASADENA, CA - ROSE BOWL
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC01

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC01

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

PASADENA, CA

Venue Name: ROSE BOWL
Latitude (NAD 83): 34° 9' 42.0" N
Longitude (NAD 83): 118° 10' 10.4" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 251.2 m / 824.2 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 106.2° to 106.2°
Corresponding Elevation Angles: 13.9° / 13.9°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Transmit

Manufacturer: GIGASAT FA-240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0

Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz): 9M00G7W / 6059.0 - 6127.0 – Band Edges
9M00G7W / 6180.0 - 6423.0 – Band Edges

Max Great Circle Coordination Distance: 127.5 km / 79.2 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**PASADENA, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 34° 9' 42.0" N
 Longitude (NAD 83) 118° 10' 10.4" W
 Ground Elevation (AMSL) 251.2 m / 824.2 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	4.04	105.94	-10.00	100.00
5	4.23	101.02	-10.00	100.00
10	5.30	96.12	-10.00	100.00
15	5.20	91.17	-10.00	100.00
20	6.63	86.22	-10.00	100.00
25	6.07	81.27	-10.00	100.00
30	6.23	76.31	-10.00	100.00
35	6.85	71.33	-10.00	100.00
40	6.19	66.41	-10.00	100.00
45	5.63	61.51	-10.00	100.00
50	5.75	56.57	-10.00	100.00
55	3.51	51.93	-10.00	100.00
60	3.66	47.05	-9.81	100.00
65	3.62	42.22	-8.64	100.00
70	1.89	37.86	-7.46	100.00
75	1.82	33.22	-6.03	100.00
80	1.75	28.68	-4.44	100.00
85	1.60	24.35	-2.66	100.00
90	1.49	20.29	-0.68	100.00
95	1.47	16.65	1.46	100.13
100	1.73	13.62	3.65	100.07
105	1.50	12.44	4.63	108.73
110	1.14	13.30	3.91	115.86
115	1.11	15.48	2.25	111.77
120	1.08	18.75	0.17	106.32
125	0.84	22.76	-1.93	109.60
130	0.75	27.01	-3.79	108.70
135	0.73	31.44	-5.44	105.07
140	0.65	36.02	-6.91	104.50
145	0.69	40.66	-8.23	100.00
150	0.85	45.33	-9.41	100.00
155	0.83	50.10	-10.00	100.00
160	0.69	54.91	-10.00	100.00
165	0.28	59.78	-10.00	120.68
170	0.00	64.64	-10.00	127.50
175	1.26	69.35	-10.00	100.00
180	4.23	74.05	-10.00	100.00
185	5.53	78.94	-10.00	100.00

Coordination Values**PASADENA, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 34° 9' 42.0" N
 Longitude (NAD 83) 118° 10' 10.4" W
 Ground Elevation (AMSL) 251.2 m / 824.2 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	5.04	83.89	-10.00	100.00
195	4.34	88.83	-10.00	100.00
200	4.76	93.77	-10.00	100.00
205	5.40	98.72	-10.00	100.00
210	6.56	103.70	-10.00	100.00
215	6.92	108.67	-10.00	100.00
220	7.99	113.68	-10.00	100.00
225	7.04	118.59	-10.00	100.00
230	7.08	123.54	-10.00	100.00
235	8.66	128.62	-10.00	100.00
240	8.60	133.58	-10.00	100.00
245	7.69	138.43	-10.00	100.00
250	8.70	143.50	-10.00	100.00
255	8.90	148.46	-10.00	100.00
260	10.12	153.56	-10.00	100.00
265	8.51	158.17	-10.00	100.00
270	7.57	162.66	-10.00	100.00
275	7.23	167.01	-10.00	100.00
280	7.14	170.86	-10.00	100.00
285	7.33	173.34	-10.00	100.00
290	6.81	171.97	-10.00	100.00
295	5.78	168.05	-10.00	100.00
300	4.89	163.56	-10.00	100.00
305	4.20	158.92	-10.00	100.00
310	5.27	154.76	-10.00	100.00
315	6.34	150.30	-10.00	100.00
320	6.23	145.43	-10.00	100.00
325	5.69	140.46	-10.00	100.00
330	5.53	135.56	-10.00	100.00
335	5.28	130.62	-10.00	100.00
340	4.03	125.57	-10.00	100.00
345	4.11	120.68	-10.00	100.00
350	4.06	115.77	-10.00	100.00
355	2.68	110.76	-10.00	100.00



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Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
PASADENA, CA - MILLENNIUM BILTMORE
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC03

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC03

Administrative Information

Status TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name WIN SPORTS S.A.S.

Site Information

PASADENA, CA
Venue Name MILLENNIUM BILTMORE
Latitude (NAD 83) 34° 2' 55.0" N
Longitude (NAD 83) 118° 15' 13.3" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 83.43 m / 273.7 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 55.5° W to 55.5° West Longitude
Azimuth Range 106.1° to 106.1°
Corresponding Elevation Angles 13.8° / 13.8°
Antenna Centerline (AGL) 3.05 m / 10.0 ft

Antenna Information

Transmit
Manufacturer GIGASAT FA-240
Gain / Diameter 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz) -16.0
(dBW/MHz) 8.0

Maximum EIRP (dBW/4 kHz) 26.0
(dBW/MHz) 50.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz) 9M00G7W / 5927.0 - 5989.0 – Band Edges
9M00G7W / 6020.0 - 6048.0 – Band Edges
9M00G7W / 6079.0 - 6108.0 – Band Edges
9M00G7W / 6168.0 - 6300.0 – Band Edges
9M00G7W / 6331.0 - 6360.0 – Band Edges

Max Great Circle Coordination Distance 171.2 km / 106.3 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values**PASADENA, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 34° 2' 55.0" N
 Longitude (NAD 83) 118° 15' 13.3" W
 Ground Elevation (AMSL) 83.43 m / 273.7 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	4.08	105.85	-10.00	100.00
5	4.41	100.93	-10.00	100.00
10	4.73	96.01	-10.00	100.00
15	4.84	91.07	-10.00	100.00
20	4.43	86.14	-10.00	100.00
25	4.02	81.22	-10.00	100.00
30	3.42	76.32	-10.00	100.00
35	3.33	71.41	-10.00	100.00
40	3.08	66.53	-10.00	100.00
45	2.42	61.71	-10.00	100.00
50	1.29	57.00	-10.00	100.00
55	1.31	52.18	-10.00	100.00
60	0.96	47.46	-9.91	100.00
65	0.97	42.71	-8.76	100.00
70	0.76	38.08	-7.52	100.00
75	0.65	33.51	-6.13	106.78
80	0.46	29.10	-4.60	120.81
85	0.73	24.68	-2.81	112.25
90	0.78	20.62	-0.86	115.33
95	0.34	17.41	0.98	146.43
100	0.00	15.10	2.52	167.63
105	0.00	13.89	3.43	171.17
110	0.00	14.38	3.06	169.71
115	0.21	16.25	1.73	162.34
120	0.00	19.53	-0.27	155.58
125	0.00	23.29	-2.18	148.99
130	0.00	27.43	-3.96	143.26
135	0.00	31.80	-5.56	138.40
140	0.00	36.32	-7.00	134.30
145	0.00	40.93	-8.30	132.03
150	0.00	45.62	-9.48	128.89
155	0.00	50.35	-10.00	127.50
160	0.00	55.12	-10.00	127.50
165	0.00	59.91	-10.00	127.50
170	0.00	64.73	-10.00	127.50
175	0.00	69.56	-10.00	127.50
180	0.00	74.39	-10.00	127.50
185	0.00	79.24	-10.00	127.50

Coordination Values**PASADENA, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 34° 2' 55.0" N
 Longitude (NAD 83) 118° 15' 13.3" W
 Ground Elevation (AMSL) 83.43 m / 273.7 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	84.09	-10.00	127.50
195	0.00	88.95	-10.00	127.50
200	0.00	93.80	-10.00	127.50
205	0.00	98.65	-10.00	127.50
210	0.00	103.50	-10.00	127.50
215	0.00	108.34	-10.00	127.50
220	0.00	113.18	-10.00	127.50
225	0.00	118.00	-10.00	127.50
230	0.00	122.80	-10.00	127.50
235	0.00	127.58	-10.00	127.50
240	0.00	132.33	-10.00	127.50
245	0.00	137.04	-10.00	127.50
250	0.00	141.69	-10.00	127.50
255	0.00	146.25	-10.00	127.50
260	0.00	150.70	-10.00	127.50
265	0.00	154.95	-10.00	127.50
270	0.00	158.89	-10.00	127.50
275	0.00	162.33	-10.00	127.50
280	0.34	165.21	-10.00	115.85
285	0.54	166.65	-10.00	101.84
290	1.15	166.72	-10.00	100.00
295	1.47	164.78	-10.00	100.00
300	2.03	161.82	-10.00	100.00
305	2.13	157.86	-10.00	100.00
310	2.09	153.50	-10.00	100.00
315	2.04	148.96	-10.00	100.00
320	1.98	144.30	-10.00	100.00
325	2.20	139.65	-10.00	100.00
330	2.23	134.88	-10.00	100.00
335	1.98	130.03	-10.00	100.00
340	2.16	125.22	-10.00	100.00
345	2.83	120.45	-10.00	100.00
350	3.90	115.66	-10.00	100.00
355	4.05	110.76	-10.00	100.00



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
(703)-726-5500
Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
HOUSTON, TX - NRG STADIUM
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC04

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

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Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC04

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

HOUSTON, TX
Venue Name: NRG STADIUM
Latitude (NAD 83): 29° 41' 12.3" N
Longitude (NAD 83): 95° 24' 39.0" W
Climate Zone: B
Rain Zone: 2
Ground Elevation (AMSL): 14.65 m / 48.1 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 120.6° to 120.6°
Corresponding Elevation Angles: 34.6° / 34.6°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Transmit
Manufacturer: GIGASAT FA 240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0

Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz): 9M00G7W / 6050.0 - 6261.0 – Band Edges
9M00G7W / 6331.0 - 6360.0 – Band Edges
9M00G7W / 6361.0 - 6423.0 – Band Edges

Max Great Circle Coordination Distance: 152.0 km / 94.5 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**HOUSTON, TX**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 29° 41' 12.3" N
 Longitude (NAD 83) 95° 24' 39.0" W
 Ground Elevation (AMSL) 14.65 m / 48.1 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	114.78	-10.00	138.51
5	0.00	110.85	-10.00	138.51
10	0.00	106.85	-10.00	138.51
15	0.00	102.81	-10.00	138.51
20	0.00	98.73	-10.00	138.51
25	0.00	94.63	-10.00	138.51
30	0.00	90.52	-10.00	138.51
35	0.00	86.41	-10.00	138.51
40	0.00	82.30	-10.00	138.51
45	0.00	78.22	-10.00	138.51
50	0.00	74.17	-10.00	138.51
55	0.00	70.16	-10.00	138.51
60	0.00	66.20	-10.00	138.51
65	0.00	62.33	-10.00	138.51
70	0.00	58.54	-10.00	138.51
75	0.00	54.88	-10.00	138.51
80	0.00	51.36	-10.00	138.51
85	0.00	48.03	-10.00	138.51
90	0.00	44.93	-9.31	141.03
95	0.00	42.12	-8.61	143.69
100	0.00	39.65	-7.96	146.23
105	0.00	37.60	-7.38	148.40
110	0.00	36.04	-6.92	150.26
115	0.00	35.04	-6.61	151.52
120	0.00	34.65	-6.49	152.03
125	0.00	34.88	-6.56	151.72
130	0.00	35.73	-6.83	150.64
135	0.00	37.16	-7.25	148.91
140	0.00	39.09	-7.80	146.84
145	0.00	41.46	-8.44	144.35
150	0.00	44.19	-9.13	141.71
155	0.00	47.23	-9.85	139.04
160	0.00	50.50	-10.00	138.51
165	0.00	53.97	-10.00	138.51
170	0.00	57.60	-10.00	138.51
175	0.00	61.36	-10.00	138.51
180	0.00	65.22	-10.00	138.51
185	0.36	69.06	-10.00	121.52

Coordination Values**HOUSTON, TX**

Licensee Name WIN SPORTS S.A.S.
Latitude (NAD 83) 29° 41' 12.3" N
Longitude (NAD 83) 95° 24' 39.0" W
Ground Elevation (AMSL) 14.65 m / 48.1 ft
Antenna Centerline (AGL) 3.05 m / 10.0 ft
Antenna Mode Transmit 6.1 GHz
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%
Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	73.15	-10.00	138.51
195	0.33	77.14	-10.00	124.94
200	0.00	81.27	-10.00	138.51
205	0.00	85.37	-10.00	138.51
210	0.00	89.48	-10.00	138.51
215	0.00	93.59	-10.00	138.51
220	0.00	97.70	-10.00	138.51
225	0.00	101.78	-10.00	138.51
230	0.00	105.83	-10.00	138.51
235	0.00	109.84	-10.00	138.51
240	0.00	113.80	-10.00	138.51
245	0.00	117.67	-10.00	138.51
250	0.00	121.46	-10.00	138.51
255	0.00	125.12	-10.00	138.51
260	0.00	128.64	-10.00	138.51
265	0.00	131.97	-10.00	138.51
270	0.00	135.07	-10.00	138.51
275	0.00	137.88	-10.00	138.51
280	0.00	140.35	-10.00	138.51
285	0.00	142.40	-10.00	138.51
290	0.00	143.96	-10.00	138.51
295	0.00	144.96	-10.00	138.51
300	0.00	145.35	-10.00	138.51
305	0.00	145.12	-10.00	138.51
310	0.00	144.27	-10.00	138.51
315	0.00	142.84	-10.00	138.51
320	0.00	140.91	-10.00	138.51
325	0.00	138.54	-10.00	138.51
330	0.00	135.81	-10.00	138.51
335	0.00	132.77	-10.00	138.51
340	0.00	129.50	-10.00	138.51
345	0.00	126.03	-10.00	138.51
350	0.00	122.40	-10.00	138.51
355	0.00	118.64	-10.00	138.51



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
(703)-726-5500
Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
HOUSTON, TX - MAGNOLIA HOTEL HOUSTON
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC05

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC05

Administrative Information

Status TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name WIN SPORTS S.A.S.

Site Information

HOUSTON, TX
Venue Name MAGNOLIA HOTEL HOUSTON
Latitude (NAD 83) 29° 45' 31.5" N
Longitude (NAD 83) 95° 21' 44.0" W
Climate Zone B
Rain Zone 2
Ground Elevation (AMSL) 13.93 m / 45.7 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 55.5° W to 55.5° West Longitude
Azimuth Range 120.7° to 120.7°
Corresponding Elevation Angles 34.6° / 34.6°
Antenna Centerline (AGL) 3.05 m / 10.0 ft

Antenna Information

Transmit
Manufacturer GIGASAT FA 240
Gain / Diameter 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz) -16.0
(dBW/MHz) 8.0

Maximum EIRP (dBW/4 kHz) 26.0
(dBW/MHz) 50.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz) 9M00G7W / 6168.0 - 6182.0 – Band Edges
9M00G7W / 6242.0 - 6423.0 – Band Edges

Max Great Circle Coordination Distance 152.0 km / 94.5 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values**HOUSTON, TX**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 29° 45' 31.5" N
 Longitude (NAD 83) 95° 21' 44.0" W
 Ground Elevation (AMSL) 13.93 m / 45.7 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	114.86	-10.00	138.51
5	0.00	110.93	-10.00	138.51
10	0.00	106.93	-10.00	138.51
15	0.00	102.89	-10.00	138.51
20	0.00	98.81	-10.00	138.51
25	0.00	94.71	-10.00	138.51
30	0.00	90.60	-10.00	138.51
35	0.00	86.49	-10.00	138.51
40	0.00	82.38	-10.00	138.51
45	0.00	78.30	-10.00	138.51
50	0.00	74.25	-10.00	138.51
55	0.00	70.23	-10.00	138.51
60	0.00	66.28	-10.00	138.51
65	0.00	62.40	-10.00	138.51
70	0.00	58.62	-10.00	138.51
75	0.00	54.95	-10.00	138.51
80	0.00	51.43	-10.00	138.51
85	0.00	48.10	-10.00	138.51
90	0.00	44.99	-9.33	140.98
95	0.00	42.17	-8.62	143.64
100	0.00	39.69	-7.97	146.18
105	0.00	37.63	-7.39	148.36
110	0.00	36.06	-6.93	150.23
115	0.00	35.05	-6.62	151.50
120	0.00	34.65	-6.49	152.02
125	0.00	34.87	-6.56	151.74
130	0.00	35.71	-6.82	150.67
135	0.00	37.12	-7.24	148.95
140	0.00	39.05	-7.79	146.89
145	0.00	41.41	-8.43	144.40
150	0.00	44.13	-9.12	141.76
155	0.00	47.16	-9.84	139.10
160	0.00	50.44	-10.00	138.51
165	0.00	53.90	-10.00	138.51
170	0.00	57.53	-10.00	138.51
175	0.00	61.28	-10.00	138.51
180	0.00	65.14	-10.00	138.51
185	0.00	69.07	-10.00	138.51

Coordination Values**HOUSTON, TX**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 29° 45' 31.5" N
 Longitude (NAD 83) 95° 21' 44.0" W
 Ground Elevation (AMSL) 13.93 m / 45.7 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	73.07	-10.00	138.51
195	0.00	77.11	-10.00	138.51
200	0.00	81.19	-10.00	138.51
205	0.00	85.29	-10.00	138.51
210	0.00	89.40	-10.00	138.51
215	0.00	93.51	-10.00	138.51
220	0.00	97.62	-10.00	138.51
225	0.00	101.70	-10.00	138.51
230	0.00	105.75	-10.00	138.51
235	0.00	109.77	-10.00	138.51
240	0.00	113.72	-10.00	138.51
245	0.00	117.60	-10.00	138.51
250	0.00	121.38	-10.00	138.51
255	0.00	125.05	-10.00	138.51
260	0.00	128.57	-10.00	138.51
265	0.00	131.90	-10.00	138.51
270	0.00	135.01	-10.00	138.51
275	0.00	137.83	-10.00	138.51
280	0.00	140.31	-10.00	138.51
285	0.00	142.37	-10.00	138.51
290	0.00	143.94	-10.00	138.51
295	0.00	144.95	-10.00	138.51
300	0.00	145.35	-10.00	138.51
305	0.00	145.13	-10.00	138.51
310	0.00	144.29	-10.00	138.51
315	0.00	142.88	-10.00	138.51
320	0.00	140.95	-10.00	138.51
325	0.00	138.59	-10.00	138.51
330	0.00	135.87	-10.00	138.51
335	0.00	132.84	-10.00	138.51
340	0.00	129.56	-10.00	138.51
345	0.00	126.10	-10.00	138.51
350	0.00	122.47	-10.00	138.51
355	0.00	118.72	-10.00	138.51



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19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
(703)-726-5500
Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
FREEMONT, CA - INN LA QUINTA
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC08

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC08

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

FREEMONT, CA
Venue Name: INN LA QUINTA
Latitude (NAD 83): 37° 29' 23.2" N
Longitude (NAD 83): 121° 56' 46.4" W
Climate Zone: B
Rain Zone: 4
Ground Elevation (AMSL): 6.07 m / 19.9 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 104.9° to 104.9°
Corresponding Elevation Angles: 9.9° / 9.9°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Transmit
Manufacturer: GIGASAT 240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0

Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz): 9M00G7W / 5927.0 - 6016.0 – Band Edges
9M00G7W / 6167.0 - 6182.0 – Band Edges

Max Great Circle Coordination Distance: 156.3 km / 97.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**FREEMONT, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 37° 29' 23.2" N
 Longitude (NAD 83) 121° 56' 46.4" W
 Ground Elevation (AMSL) 6.07 m / 19.9 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.66	104.66	-10.00	104.44
5	1.21	99.75	-10.00	100.00
10	1.40	94.81	-10.00	100.00
15	1.52	89.86	-10.00	100.00
20	1.46	84.92	-10.00	100.00
25	2.05	79.96	-10.00	100.00
30	2.61	74.99	-10.00	100.00
35	2.68	70.03	-10.00	100.00
40	3.08	65.05	-10.00	100.00
45	3.48	60.07	-10.00	100.00
50	5.07	55.01	-10.00	100.00
55	5.32	50.02	-10.00	100.00
60	5.69	45.02	-9.33	100.00
65	6.60	39.98	-8.05	100.00
70	6.04	35.05	-6.62	100.00
75	6.35	30.05	-4.95	100.00
80	6.75	25.05	-2.97	100.00
85	6.11	20.21	-0.64	100.00
90	6.26	15.30	2.39	100.00
95	6.05	10.59	6.38	100.00
100	5.14	6.81	11.17	100.00
105	4.18	5.74	13.03	113.12
110	2.43	9.07	8.06	104.13
115	1.73	13.01	4.14	107.94
120	1.56	17.25	1.08	103.74
125	1.10	21.91	-1.52	107.57
130	0.32	26.80	-3.70	148.01
135	0.00	31.58	-5.49	156.29
140	0.00	36.34	-7.01	149.89
145	0.00	41.14	-8.36	144.67
150	0.00	45.98	-9.57	140.10
155	0.00	50.85	-10.00	138.51
160	0.00	55.73	-10.00	138.51
165	0.41	60.59	-10.00	117.05
170	0.50	65.50	-10.00	112.40
175	0.58	70.41	-10.00	108.36
180	0.30	75.35	-10.00	128.10
185	0.00	80.29	-10.00	138.51

Coordination Values**FREEMONT, CA**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 37° 29' 23.2" N
 Longitude (NAD 83) 121° 56' 46.4" W
 Ground Elevation (AMSL) 6.07 m / 19.9 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	85.21	-10.00	138.51
195	0.00	90.14	-10.00	138.51
200	0.00	95.06	-10.00	138.51
205	0.00	99.99	-10.00	138.51
210	0.00	104.91	-10.00	138.51
215	0.00	109.82	-10.00	138.51
220	0.00	114.74	-10.00	138.51
225	0.00	119.64	-10.00	138.51
230	0.00	124.54	-10.00	138.51
235	0.00	129.42	-10.00	138.51
240	0.00	134.28	-10.00	138.51
245	0.00	139.12	-10.00	138.51
250	0.00	143.93	-10.00	138.51
255	0.00	148.68	-10.00	138.51
260	0.00	153.35	-10.00	138.51
265	0.00	157.89	-10.00	138.51
270	0.25	162.33	-10.00	132.67
275	0.42	166.34	-10.00	116.43
280	0.00	168.96	-10.00	138.51
285	0.00	170.08	-10.00	138.51
290	0.00	168.84	-10.00	138.51
295	0.00	165.85	-10.00	138.51
300	0.00	161.97	-10.00	138.51
305	0.00	157.64	-10.00	138.51
310	0.00	153.09	-10.00	138.51
315	0.00	148.42	-10.00	138.51
320	0.00	143.66	-10.00	138.51
325	0.00	138.86	-10.00	138.51
330	0.00	134.02	-10.00	138.51
335	0.43	129.21	-10.00	116.15
340	0.00	124.27	-10.00	138.51
345	0.00	119.37	-10.00	138.51
350	0.00	114.47	-10.00	138.51
355	0.38	109.58	-10.00	119.69



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
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Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
EAST RUTHERFORD, NJ - EXTENDED STAY AMERICA
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC07

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC07

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

EAST RUTHERFORD, NJ
Venue Name: EXTENDED STAY AMERICA
Latitude (NAD 83): 40° 48' 20.0" N
Longitude (NAD 83): 74° 4' 35.0" W
Climate Zone: B
Rain Zone: 2
Ground Elevation (AMSL): 2.28 m / 7.5 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 152.8° to 152.8°
Corresponding Elevation Angles: 39.1° / 39.1°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Transmit
Manufacturer: GIGASAT FA 240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0

Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz):
9M00G7W / 5927.0 - 5959.0 – Band Edges
9M00G7W / 5990.0 - 6048.0 – Band Edges
9M00G7W / 6079.0 - 6330.0 – Band Edges
9M00G7W / 6331.0 - 6360.0 – Band Edges
9M00G7W / 6390.0 - 6423.0 – Band Edges

Max Great Circle Coordination Distance: 143.5 km / 89.2 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**EAST RUTHERFORD, NJ**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 40° 48' 20.0" N
 Longitude (NAD 83) 74° 4' 35.0" W
 Ground Elevation (AMSL) 2.28 m / 7.5 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.34	133.90	-10.00	123.44
5	0.00	131.03	-10.00	138.51
10	0.00	128.17	-10.00	138.51
15	0.00	125.08	-10.00	138.51
20	0.00	121.81	-10.00	138.51
25	0.00	118.39	-10.00	138.51
30	0.00	114.85	-10.00	138.51
35	0.20	111.27	-10.00	138.37
40	0.00	107.49	-10.00	138.51
45	0.00	103.71	-10.00	138.51
50	0.00	99.89	-10.00	138.51
55	0.00	96.03	-10.00	138.51
60	0.00	92.16	-10.00	138.51
65	0.39	88.27	-10.00	119.02
70	0.57	84.36	-10.00	108.73
75	0.67	80.46	-10.00	104.10
80	0.62	76.61	-10.00	106.39
85	0.55	72.81	-10.00	109.64
90	0.57	69.04	-10.00	108.66
95	0.68	65.32	-10.00	103.45
100	0.77	61.68	-10.00	100.00
105	0.75	58.21	-10.00	100.00
110	0.61	54.94	-10.00	106.56
115	0.54	51.84	-10.00	110.30
120	0.51	48.93	-10.00	111.61
125	0.48	46.28	-9.63	114.34
130	0.51	43.90	-9.06	113.94
135	0.53	41.90	-8.56	114.55
140	0.59	40.27	-8.13	112.68
145	0.71	39.06	-7.79	107.69
150	0.52	38.68	-7.69	117.04
155	0.41	38.75	-7.71	124.07
160	0.38	39.29	-7.86	126.27
165	0.30	40.39	-8.16	133.24
170	0.20	41.99	-8.58	143.50
175	0.00	44.08	-9.11	141.81
180	0.00	46.37	-9.65	139.77
185	0.00	48.97	-10.00	138.51

Coordination Values	EAST RUTHERFORD, NJ
Licensee Name	WIN SPORTS S.A.S.
Latitude (NAD 83)	40° 48' 20.0" N
Longitude (NAD 83)	74° 4' 35.0" W
Ground Elevation (AMSL)	2.28 m / 7.5 ft
Antenna Centerline (AGL)	3.05 m / 10.0 ft
Antenna Model	FCC Reference 32-25LOG(THETA)
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.45	51.55	-10.00	116.06
195	0.00	54.92	-10.00	138.51
200	0.00	58.19	-10.00	138.51
205	0.00	61.61	-10.00	138.51
210	0.00	65.15	-10.00	138.51
215	0.00	68.79	-10.00	138.51
220	0.00	72.51	-10.00	138.51
225	0.00	76.29	-10.00	138.51
230	0.00	80.11	-10.00	138.51
235	0.22	83.95	-10.00	136.20
240	0.31	87.83	-10.00	126.67
245	0.37	91.73	-10.00	120.88
250	0.36	95.62	-10.00	122.06
255	0.39	99.50	-10.00	118.85
260	0.40	103.35	-10.00	118.30
265	0.37	107.15	-10.00	120.73
270	0.37	110.90	-10.00	121.18
275	0.55	114.63	-10.00	109.73
280	0.53	118.22	-10.00	110.52
285	0.56	121.70	-10.00	108.99
290	0.38	124.92	-10.00	120.16
295	0.51	128.14	-10.00	111.52
300	0.51	131.08	-10.00	111.41
305	0.47	133.71	-10.00	114.77
310	0.49	136.08	-10.00	113.24
315	0.44	138.03	-10.00	116.84
320	0.28	139.43	-10.00	130.02
325	0.25	140.48	-10.00	133.42
330	0.27	141.08	-10.00	130.27
335	0.50	141.34	-10.00	111.87
340	0.63	140.95	-10.00	106.01
345	0.78	140.05	-10.00	100.00
350	0.58	138.35	-10.00	108.09
355	0.51	136.35	-10.00	111.41



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
(703)-726-5500
Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
EAST RUTHERFORD, NJ - METLIFE STADIUM
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC06

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH
Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC06

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

EAST RUTHERFORD, NJ

Venue Name: METLIFE STADIUM
Latitude (NAD 83): 40° 48' 55.0" N
Longitude (NAD 83): 74° 4' 27.0" W
Climate Zone: B
Rain Zone: 2
Ground Elevation (AMSL): 0.88 m / 2.9 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 152.8° to 152.8°
Corresponding Elevation Angles: 39.1° / 39.1°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Transmit

Manufacturer: GIGASAT FA 240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0

Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz):
9M00G7W / 5927.0 - 5959.0 – Band Edges
9M00G7W / 5990.0 - 6048.0 – Band Edges
9M00G7W / 6079.0 - 6271.0 – Band Edges
9M00G7W / 6331.0 - 6423.0 – Band Edges

Max Great Circle Coordination Distance: 141.8 km / 88.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**EAST RUTHERFORD, NJ**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 40° 48' 55.0" N
 Longitude (NAD 83) 74° 4' 27.0" W
 Ground Elevation (AMSL) 0.88 m / 2.9 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.36	133.92	-10.00	121.76
5	0.21	131.19	-10.00	137.80
10	0.27	128.35	-10.00	131.12
15	0.00	125.09	-10.00	138.51
20	0.00	121.82	-10.00	138.51
25	0.00	118.40	-10.00	138.51
30	0.00	114.85	-10.00	138.51
35	0.21	111.28	-10.00	137.07
40	0.26	107.56	-10.00	131.91
45	0.00	103.72	-10.00	138.51
50	0.00	99.90	-10.00	138.51
55	0.00	96.04	-10.00	138.51
60	0.00	92.17	-10.00	138.51
65	0.40	88.28	-10.00	118.14
70	0.57	84.37	-10.00	108.65
75	0.59	80.48	-10.00	107.71
80	0.67	76.60	-10.00	104.09
85	0.75	72.76	-10.00	100.11
90	0.65	69.02	-10.00	104.76
95	0.58	65.36	-10.00	108.32
100	0.58	61.76	-10.00	108.16
105	0.65	58.26	-10.00	105.00
110	0.72	54.88	-10.00	101.28
115	0.76	51.70	-10.00	100.00
120	0.60	48.86	-10.00	107.40
125	0.55	46.22	-9.62	110.54
130	0.48	43.93	-9.07	116.34
135	0.45	41.96	-8.57	118.17
140	0.49	40.36	-8.15	116.08
145	0.48	39.28	-7.85	117.33
150	0.56	38.63	-7.67	115.23
155	0.51	38.65	-7.68	115.81
160	0.36	39.30	-7.86	128.53
165	0.33	40.35	-8.15	130.28
170	0.23	41.95	-8.57	140.42
175	0.00	44.07	-9.10	141.82
180	0.00	46.36	-9.65	139.78
185	0.00	48.96	-10.00	138.51

Coordination Values**EAST RUTHERFORD, NJ**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 40° 48' 55.0" N
 Longitude (NAD 83) 74° 4' 27.0" W
 Ground Elevation (AMSL) 0.88 m / 2.9 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.41	51.56	-10.00	117.53
195	0.00	54.91	-10.00	138.51
200	0.00	58.18	-10.00	138.51
205	0.00	61.60	-10.00	138.51
210	0.00	65.15	-10.00	138.51
215	0.00	68.79	-10.00	138.51
220	0.00	72.50	-10.00	138.51
225	0.00	76.28	-10.00	138.51
230	0.25	80.07	-10.00	133.30
235	0.32	83.93	-10.00	125.91
240	0.34	87.82	-10.00	123.77
245	0.37	91.72	-10.00	121.17
250	0.37	95.62	-10.00	120.51
255	0.52	99.51	-10.00	111.12
260	0.56	103.38	-10.00	109.13
265	0.51	107.18	-10.00	111.61
270	0.44	110.92	-10.00	117.01
275	0.55	114.63	-10.00	109.69
280	0.61	118.25	-10.00	106.68
285	0.54	121.69	-10.00	110.24
290	0.60	125.05	-10.00	107.08
295	0.59	128.19	-10.00	107.83
300	0.45	131.03	-10.00	116.31
305	0.37	133.63	-10.00	121.24
310	0.35	135.97	-10.00	122.54
315	0.36	137.96	-10.00	121.59
320	0.59	139.74	-10.00	107.54
325	0.71	140.94	-10.00	102.04
330	0.82	141.63	-10.00	100.00
335	0.99	141.84	-10.00	100.00
340	0.94	141.27	-10.00	100.00
345	0.78	140.07	-10.00	100.00
350	0.70	138.47	-10.00	102.49
355	0.56	136.40	-10.00	109.21



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
(703)-726-5500
Fax: (703)-726-5600

May 13, 2016

Re: WIN SPORTS S.A.S.
CHICAGO, IL - SOLDIERS FIELD
Temporary Transmit-Only Earth Station
Operation Dates: 05/28/2016 - 06/30/2016
Job Number: 160513COMSTC10

Dear Frequency Coordinator:

On behalf of WIN SPORTS S.A.S., 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

Timothy O. Crutcher
Frequency Planner
tcrutche@comsearch.com

Enclosure(s)

CC: Columbia, MD – FCC Field Office.

COMSEARCH
Earth Station Data Sheet
19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703) 726-5665

Date: 05/13/2016
Job Number: 160513COMSTC10

Administrative Information

Status: TEMPORARY (Operation from 05/28/2016 to 06/30/2016)
Licensee Name: WIN SPORTS S.A.S.

Site Information

CHICAGO, IL
Venue Name: SOLDIERS FIELD
Latitude (NAD 83): 41° 51' 43.0" N
Longitude (NAD 83): 87° 37' 5.0" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 180.01 m / 590.6 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 55.5° W to 55.5° West Longitude
Azimuth Range: 136.8° to 136.8°
Corresponding Elevation Angles: 31.7° / 31.7°
Antenna Centerline (AGL): 3.05 m / 10.0 ft

Antenna Information

Transmit
Manufacturer: GIGASAT 240
Gain / Diameter: 42.0 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -16.0
(dBW/MHz): 8.0

Maximum EIRP (dBW/4 kHz): 26.0
(dBW/MHz): 50.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz): 9M00G7W / 5927.0 - 6003.0 – Band Edges
9M00G7W / 6050.0 - 6182.0 – Band Edges

Max Great Circle Coordination Distance: 138.4 km / 86.0 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values**CHICAGO, IL**

Licensee Name WIN SPORTS S.A.S.
 Latitude (NAD 83) 41° 51' 43.0" N
 Longitude (NAD 83) 87° 37' 5.0" W
 Ground Elevation (AMSL) 180.01 m / 590.6 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.29	128.43	-10.00	120.03
5	0.31	124.64	-10.00	118.55
10	0.32	120.71	-10.00	117.90
15	0.29	116.68	-10.00	120.36
20	0.29	112.59	-10.00	120.53
25	0.26	108.43	-10.00	122.46
30	0.29	104.24	-10.00	120.08
35	0.00	99.98	-10.00	127.50
40	0.00	95.74	-10.00	127.50
45	0.00	91.49	-10.00	127.50
50	0.00	87.24	-10.00	127.50
55	0.00	82.99	-10.00	127.50
60	0.00	78.76	-10.00	127.50
65	0.00	74.55	-10.00	127.50
70	0.00	70.38	-10.00	127.50
75	0.00	66.26	-10.00	127.50
80	0.00	62.20	-10.00	127.50
85	0.00	58.22	-10.00	127.50
90	0.00	54.35	-10.00	127.50
95	0.00	50.61	-10.00	127.50
100	0.00	47.03	-9.81	128.01
105	0.00	43.67	-9.00	130.15
110	0.00	40.57	-8.21	132.29
115	0.00	37.81	-7.44	133.11
120	0.00	35.46	-6.74	135.02
125	0.00	33.61	-6.16	136.66
130	0.00	32.35	-5.75	137.85
135	0.00	31.76	-5.55	138.44
140	0.00	31.86	-5.58	138.33
145	0.00	32.66	-5.85	137.55
150	0.00	34.10	-6.32	136.21
155	0.00	36.11	-6.94	134.47
160	0.00	38.59	-7.66	133.75
165	0.00	41.46	-8.44	131.66
170	0.00	44.65	-9.25	129.51
175	0.00	48.08	-10.00	127.50
180	0.00	51.71	-10.00	127.50
185	0.00	55.49	-10.00	127.50

Coordination Values**CHICAGO, IL**

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 Latitude (NAD 83) 41° 51' 43.0" N
 Longitude (NAD 83) 87° 37' 5.0" W
 Ground Elevation (AMSL) 180.01 m / 590.6 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Mode Transmit 6.1 GHz
 Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
 Short Term -131.0 dBW/4 kHz 0.0025%
 Max Available RF Power -16.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	59.40	-10.00	127.50
195	0.00	63.41	-10.00	127.50
200	0.00	67.48	-10.00	127.50
205	0.00	71.62	-10.00	127.50
210	0.00	75.81	-10.00	127.50
215	0.00	80.02	-10.00	127.50
220	0.00	84.26	-10.00	127.50
225	0.00	88.51	-10.00	127.50
230	0.00	92.76	-10.00	127.50
235	0.00	97.01	-10.00	127.50
240	0.00	101.24	-10.00	127.50
245	0.00	105.45	-10.00	127.50
250	0.00	109.62	-10.00	127.50
255	0.00	113.74	-10.00	127.50
260	0.00	117.80	-10.00	127.50
265	0.00	121.78	-10.00	127.50
270	0.00	125.65	-10.00	127.50
275	0.00	129.39	-10.00	127.50
280	0.00	132.97	-10.00	127.50
285	0.00	136.33	-10.00	127.50
290	0.00	139.43	-10.00	127.50
295	0.00	142.19	-10.00	127.50
300	0.00	144.54	-10.00	127.50
305	0.00	146.39	-10.00	127.50
310	0.00	147.65	-10.00	127.50
315	0.00	148.24	-10.00	127.50
320	0.00	148.14	-10.00	127.50
325	0.00	147.34	-10.00	127.50
330	0.00	145.90	-10.00	127.50
335	0.00	143.89	-10.00	127.50
340	0.00	141.41	-10.00	127.50
345	0.38	138.80	-10.00	112.70
350	0.36	135.58	-10.00	114.42
355	0.29	132.08	-10.00	120.20