

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Request for America's Cup Soccer 2016

1. Applicant

Name: WIN SPORTS SAS Phone Number: 571 795 6464  
DBA Name: Fax Number:  
Street: Calle 11 # 65 - 51 E-Mail: william.albarracin@winsports.com.co  
City: BOGOTA State:  
Country: Zipcode:  
Attention: WILLIAM A ALBARRACIN



File # SES-STA-20160516-00438  
Call Sign Grant Date 5-25-16  
(or other identifier)  
Term Dates  
From: 5-25-16 To: 6-20-16  
Approved: Paul E. Allen

Applicant: WIN SPORTS S.A.S.  
File No.: SES-STA-20160516-00438  
Call Sign: None  
Special Temporary Authority (STA)

WIN SPORTS S.A.S. is granted a Special Temporary Authority, under the following conditions, from May 28 to June 30, 2016, to operate C-band 2.4 meter earth stations to provide broadcast services of the 2016 America's Cup Soccer tournament to the country of Columbia. The earth station will communicate with Intelsat 34 satellite (call sign S2915) at 55.5° W.L., using the following frequency bands: (Earth-to-space) 5850-6425 MHz and (space-to-Earth) 3625-4200 MHz.

1. Following is a list of sites that will be utilized for the events. All operations will be related to the Americas Cup;

La Quinta Inn & Suites Fremont in Fremont, CA  
Levi's Stadium in Santa Clara, CA  
Millennium Biltmore Hotel in Los Angeles, CA  
Rose Bowl Stadium in Pasadena, CA  
Magnolia Hotel Houston in Houston, TX  
NRG Stadium in Houston, TX  
CenturyLink Field in Seattle, WA  
Extended Stay America Meadowlands in East Rutherford, NJ  
MetLife Stadium in MetLife Stadium in East Rutherford, NJ  
Soldier Field in Chicago, IL.

2. Operations under this authorization must comport with S2915 technical operating parameters and the Federal Communication Commission's rules.

3. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, *i.e.*, WIN SPORTS must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station.

4. In the event of any harmful interference under this grant of special temporary authority, WIN SPORTS 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 special temporary authority is solely at WIN SPORTS's own risk.

6. 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-20160516-00438  
Call Sign \_\_\_\_\_ Grant Date 5-25-16  
(or other identifier)  
Term Dates  
From: 5-28-16 To: 6-30-16  
Approved: Paul E. Hines

<b>2. Contact</b>			
<b>Name:</b>	WILLIAM A ALBARRACIN	<b>Phone Number:</b>	571 795 6464
<b>Company:</b>	WIN SPORTS SAS	<b>Fax Number:</b>	
<b>Street:</b>	Calle 11 # 65 - 51	<b>E-Mail:</b>	william.albarracin@winsports.com.co
<b>City:</b>	BOGOTA	<b>State:</b>	
<b>Country:</b>	Colombia	<b>Zipcode:</b>	-
<b>Attention:</b>		<b>Relationship:</b>	Engineer
(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?			
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).			
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee			
<input type="radio"/> Other (please explain):			
4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other			
6. Requested Use Prior Date			
05/28/2016			

7. City Santa Clara	8. Latitude (dd mm ss.s h) 37 24 14.0 N
9. State CA	10. Longitude (dd mm ss.s h) 121 58 5.0 W
11. Please supply any need attachments. Attachment 1: STA Attachment 2: RadHaz Attachment 3: FreqCoord	
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.) Temporary Fixed Satellite for America's Cup Soccer 2016.	
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"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing WILLIAM A ALBARRACIN	15. Title of Person Signing Engineer
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**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**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.**

May 16, 2016

WIN SPORTS S.A.S. herein requests a Special Temporary Authority to operate C-Band 2.4 meter earth stations for a period starting on May 28, 2016 and ending by June 30, 2016. The purpose of the STA will allow WIN SPORTS S.A.S to provide broadcast services of the 2016 America's Cup Soccer tournament to the country of Columbia. Intelsat 34 is the satellite that will be utilized for all events.

These antennas will not be used in the USA beyond the requested dates, therefore no permanent license is requested or desired.

Following is a list of sites that will be utilized for testing and/or news and events. All operations will be related to the Americas Cup.

La Quinta Inn & Suites Fremont in Fremont, CA  
Levi's Stadium in Santa Clara, CA  
Millennium Biltmore Hotel in Los Angeles, CA  
Rose Bowl Stadium in Pasadena, CA  
Magnolia Hotel Houston in Houston, TX  
NRG Stadium in Houston, TX  
CenturyLink Field in Seattle, WA  
Extended Stay America Meadowlands in East Rutherford, NJ  
MetLife Stadium in MetLife Stadium in East Rutherford, NJ  
Soldier Field in Chicago, IL

Frequency analysis and coordination has been conducted at all 10 sites and are included as exhibit to this request. Copies of all coordination data has been forwarded to the FCC field office in Columbia, Maryland.

A radiation hazard study is also attached as an exhibit to this request.

There are several licensees that currently operate utilizing the GIGASAT FA-240 antenna. E070024; E080188; E150074 are three call signs for reference.

Grant of the STA request will serve the Public Interest by enabling WIN SPORTS S.A.S. to provide soccer coverage to citizens of Columbia. These services would otherwise not be available.

4403

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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

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### Administrative Information

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

Licensee Name: WIN SPORTS S.A.S.

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### 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

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### 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

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### 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%

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### 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



<b>Coordination Values</b>	<b>SANTA CLARA, CA</b>
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

<b>Coordination Values</b>	<b>SANTA CLARA, CA</b>
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



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

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

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### Administrative Information

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

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### 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

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### 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

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### 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%

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### Frequency Information

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

### Transmit 6.1 GHz

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

<b>Coordination Values</b>	<b>SEATTLE, WA</b>
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

<b>Coordination Values</b>	<b>SEATTLE, WA</b>
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



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

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

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### Administrative Information

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

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### 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

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### 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

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### 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%

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### 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



<b>Coordination Values</b>	<b>PASADENA, CA</b>
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

<b>Coordination Values</b>	<b>PASADENA, CA</b>
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



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

<b>Coordination Values</b>	<b>PASADENA, CA</b>
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

<b>Coordination Values</b>	<b>PASADENA, CA</b>
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.

# COMSEARCH

## Earth Station Data Sheet

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

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

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### 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

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### 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

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### Antenna Information

Manufacturer: GIGASAT FA 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%

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### Frequency Information

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

### Transmit 6.1 GHz

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



<b>Coordination Values</b>	<b>HOUSTON, TX</b>
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

<b>Coordination Values</b>	<b>HOUSTON, TX</b>
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  
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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.

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**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

<b>Coordination Values</b>	<b>HOUSTON, TX</b>	
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





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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





<b>Coordination Values</b>	<b>FREEMONT, CA</b>
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



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19700 Janelia Farm Boulevard  
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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

<b>Coordination Values</b>	<b>EAST RUTHERFORD, NJ</b>
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

<b>Coordination Values</b>	<b>EAST RUTHERFORD, NJ</b>
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  
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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



<b>Coordination Values</b>	<b>EAST RUTHERFORD, NJ</b>
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

<b>Coordination Values</b>	<b>EAST RUTHERFORD, NJ</b>
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

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**Administrative Information**

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

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**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

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**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

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**Antenna Information**

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

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**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%

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**Frequency Information**

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

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**Transmit 6.1 GHz**

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

<b>Coordination Values</b>	<b>CHICAGO, IL</b>
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

<b>Coordination Values</b>	<b>CHICAGO, IL</b>
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)
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

## Analysis of Non-Ionizing Radiation for a 2.4-Meter Earth Station System

This report analyzes the non-ionizing radiation levels for a 2.4-meter earth station system. The analysis and calculations performed in this report comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01. The radiation safety limits used in the analysis are in conformance with the FCC R&O 96-326. Bulletin No. 65 and the FCC R&O specifies that there are two separate tiers of exposure limits that are dependant on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. The Maximum Permissible Exposure (MPE) limits for persons in a General Population/Uncontrolled environment are shown in Table 1. The General Population/Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less. The MPE limits for persons in an Occupational/Controlled environment are shown in Table 2. The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less. The purpose of the analysis described in this report is to determine the power flux density levels of the earth station in the far-field, near-field, transition region, between the subreflector or feed and main reflector surface, at the main reflector surface, and between the antenna edge and the ground and to compare these levels to the specified MPEs.

Table 1. Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )
30-300	0.2
300-1500	Frequency (MHz)*(0.8/1200)
1500-100,000	1.0

Table 2. Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )
30-300	1.0
300-1500	Frequency (MHz)*(4.0/1200)
1500-100,000	5.0

Table 3. Formulas and Parameters Used for Determining Power Flux Densities

Parameter	Symbol	Formula	Value	Units
Antenna Diameter	D	Input	2.4	m
Antenna Surface Area	A <sub>surface</sub>	$\pi D^2 / 4$	4.52	m <sup>2</sup>
Feed Flange Diameter	D <sub>fa</sub>	Input	9.2	cm
Area of Feed Flange	A <sub>fa</sub>	$\pi D_{fa}^2 / 4$	66.48	cm <sup>2</sup>
Frequency	F	Input	6175	MHz
Wavelength	$\lambda$	300 / F	0.048583	m
Transmit Power	P	Input	89.00	W
Antenna Gain (dBi)	G <sub>es</sub>	Input	42.0	dBi
Antenna Gain (factor)	G	$10^{G_{es}/10}$	15848.9	n/a
Pi	$\pi$	Constant	3.1415927	n/a
Antenna Efficiency	$\eta$	$G\lambda^2/(\pi^2 D^2)$	0.66	n/a

## 1. Far Field Distance Calculation

The distance to the beginning of the far field can be determined from the following equation:

$$\begin{aligned} \text{Distance to the Far Field Region} \quad R_{ff} &= 0.60 D^2 / \lambda \\ &= 71.1 \text{ m} \end{aligned} \quad (1)$$

The maximum main beam power density in the far field can be determined from the following equation:

$$\begin{aligned} \text{On-Axis Power Density in the Far Field} \quad S_{ff} &= G P / (4 \pi R_{ff}^2) \\ &= 22.182 \text{ W/m}^2 \\ &= 2.218 \text{ mW/cm}^2 \end{aligned} \quad (2)$$

## 2. Near Field Calculation

Power flux density is considered to be at a maximum value throughout the entire length of the defined Near Field region. The region is contained within a cylindrical volume having the same diameter as the antenna. Past the boundary of the Near Field region, the power density from the antenna decreases linearly with respect to increasing distance.

The distance to the end of the Near Field can be determined from the following equation:

$$\begin{aligned} \text{Extent of the Near Field} \quad R_{nf} &= D^2 / (4 \lambda) \\ &= 29.6 \text{ m} \end{aligned} \quad (3)$$

The maximum power density in the Near Field can be determined from the following equation:

$$\begin{aligned} \text{Near Field Power Density} \quad S_{nf} &= 16.0 \eta P / (\pi D^2) \\ &= 51.783 \text{ W/m}^2 \\ &= 5.178 \text{ mW/cm}^2 \end{aligned} \quad (4)$$

## 3. Transition Region Calculation

The Transition region is located between the Near and Far Field regions. The power density begins to decrease linearly with increasing distance in the Transition region. While the power density decreases inversely with distance in the Transition region, the power density decreases inversely with the square of the distance in the Far Field region. The maximum power density in the Transition region will not exceed that calculated for the Near Field region. The power density calculated in Section 1 is the highest power density the antenna can produce in any of the regions away from the antenna. The power density at a distance  $R_t$  can be determined from the following equation:

$$\begin{aligned} \text{Transition Region Power Density} \quad S_t &= S_{nf} R_{nf} / R_t \\ &= 5.178 \text{ mW/cm}^2 \end{aligned} \quad (5)$$



#### 4. Region between the Feed Assembly and the Antenna Reflector

Transmissions from the feed assembly are directed toward the antenna reflector surface, and are confined within a conical shape defined by the type of feed assembly. The most common feed assemblies are waveguide flanges, horns or subreflectors. The energy between the feed assembly and reflector surface can be calculated by determining the power density at the feed assembly surface. This can be determined from the following equation:

$$\begin{aligned} \text{Power Density at the Feed Flange} \qquad S_{fa} &= 4000 P / A_{fa} & (6) \\ &= 5355.308 \text{ mW/cm}^2 \end{aligned}$$

#### 5. Main Reflector Region

The power density in the main reflector is determined in the same manner as the power density at the feed assembly. The area is now the area of the reflector aperture and can be determined from the following equation:

$$\begin{aligned} \text{Power Density at the Reflector Surface} \qquad S_{\text{surface}} &= 4 P / A_{\text{surface}} & (7) \\ &= 78.693 \text{ W/m}^2 \\ &= 7.869 \text{ mW/cm}^2 \end{aligned}$$

#### 6. Region between the Reflector and the Ground

Assuming uniform illumination of the reflector surface, the power density between the antenna and the ground can be determined from the following equation:

$$\begin{aligned} \text{Power Density between Reflector and Ground} \qquad S_g &= P / A_{\text{surface}} & (8) \\ &= 19.673 \text{ W/m}^2 \\ &= 1.967 \text{ mW/cm}^2 \end{aligned}$$

## 7. Summary of Calculations

Table 4. Summary of Expected Radiation levels for Uncontrolled Environment

Region	Calculated Maximum Radiation Power Density Level (mW/cm <sup>2</sup> )		Hazard Assessment
1. Far Field ( $R_{ff} = 71.1$ m)	$S_{ff}$	2.218	Potential Hazard
2. Near Field ( $R_{nf} = 29.6$ m)	$S_{nf}$	5.178	Potential Hazard
3. Transition Region ( $R_{nf} < R_t < R_{ff}$ )	$S_t$	5.178	Potential Hazard
4. Between Feed Assembly and Antenna Reflector	$S_{fa}$	5355.308	Potential Hazard
5. Main Reflector	$S_{surface}$	7.869	Potential Hazard
6. Between Reflector and Ground	$S_g$	1.967	Potential Hazard

Table 5. Summary of Expected Radiation levels for Controlled Environment

Region	Calculated Maximum Radiation Power Density Level (mW/cm <sup>2</sup> )		Hazard Assessment
1. Far Field ( $R_{ff} = 71.1$ m)	$S_{ff}$	2.218	Satisfies FCC MPE
2. Near Field ( $R_{nf} = 29.6$ m)	$S_{nf}$	5.178	Potential Hazard
3. Transition Region ( $R_{nf} < R_t < R_{ff}$ )	$S_t$	5.178	Potential Hazard
4. Between Feed Assembly and Antenna Reflector	$S_{fa}$	5355.308	Potential Hazard
5. Main Reflector	$S_{surface}$	7.869	Potential Hazard
6. Between Reflector and Ground	$S_g$	1.967	Satisfies FCC MPE

It is the applicant's responsibility to ensure that the public and operational personnel are not exposed to harmful levels of radiation.

## 8. Conclusions

Based on the above analysis it is concluded that the FCC MPE guidelines have been exceeded (or met) in the regions of Table 4 and 5. The applicant proposes to comply with the MPE limits by one or more of the following methods.

This antenna will be located in an area that will not be accessible to the general public. The restricted area will be sufficient to prohibit the general public from having access to the areas that exceed the MPE limits.

Since one diameter removed from the main beam of the antenna or ½ diameter removed from the edge of the antenna the RF levels are reduced by a factor of 100 or 20 dB. None of the areas exceeding the MPE levels will be accessible by the general public.

Radiation hazard signs will be posted while this earth station is in operation.

## Means of Compliance Controlled Areas

The earth station's operational staff will not have access to the areas that exceed the MPE levels while the earth station is in operation.

The transmitters will be turned off during antenna maintenance

The applicant agrees to abide by the conditions specified in Condition 5208 provided below:

Condition 5208 - The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for worker.

Prepared by

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