

**GUSA Licensee LLC**  
**Response to FCC Form 312, Schedule B, Question E18**  
**Page 1 of 1**

Attachment 1: Comsearch Frequency Coordination and Interference Analysis Report

Attachment 2: Information on Microwave Landing System Sites

**ATTACHMENT 1**

**FREQUENCY COORDINATION AND INTERFERENCE  
ANALYSIS REPORT**

Prepared for  
**GUSA Licensee, LLC**  
**SEBRING RFT1, FL**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
July 22, 2020

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# 1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

## 2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the proposed transmit-receive earth station.

### Company

<Companies Responding with Cases>

No other carriers reported potential interference cases.

### 3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 06/12/2020.

#### Company

America-CV Station Group, Inc.  
American Broadcasting Companies, Inc.  
Board of Trustees Fla Gulf Coast Univ  
Board of Trustees, Universty of Florida  
CBS Television Stations  
Cbs Operations Investments, Inc.  
Christian Television of Palm Beach Cnty  
Daytona State College, Inc.  
Eastern Florida State College  
Entravision Holdings, LLC  
Florida West Coast Public Broadcasting I  
Fort Myers Broadcasting Company  
Fox Television Stations, LLC  
Good Life Broadcasting, Inc.  
Graham Media Group, Florida, Inc.  
Graham Media Group, Inc.  
Graham Media Group, Orlando, Inc  
Gray Television Licensee, LLC  
Gray Television Licensee, LLC  
Hearst Properties Inc.  
Ion Media Orlando License, Inc.  
Meycom Inc.  
Miami Television Station WBFS Inc  
Montclair Communications Inc.  
Montclair Communications Inc.  
Multimedia Holdings Corporation  
NBC Telemundo License LLC  
NEXSTAR BROADCASTING, INC.  
New World Communications of Tampa, Inc.  
Orlando Hearst Television, Inc.  
Pacific and Southern, LLC  
SBE Coordinator  
School Board of Broward County  
Scripps Broadcasting Holdings, LLC  
Scripps Broadcasting Holdings, LLC,  
Scripps Media, Inc. - WFTS TV  
Scripps Media, Inc. - WPTV  
South Florida PBS, Inc  
South Florida PBS, Inc  
Storer Broadcasting Co

Sun Broadcasting, Inc.  
Sunbeam Television Corp.  
Unimas Miami LLC  
University of Central Florida  
WFTV, Inc.  
WJCT, Inc.  
WLTV License Partnership, G.P.  
WPEC Licensee, LLC  
WPLG, Inc.  
WTVX Licensee, LLC  
WWSB License Subsidiary, LLC  
Waterman Broadcasting

## **4. EARTH STATION COORDINATION DATA**

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.



# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Date: 07/22/2020  
Job Number: 200612COMSGE02

### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign E050097  
Licensee Code ZAIRSA  
Licensee Name GUSA Licensee, LLC

### Site Information SEBRING RFT1, FL

Venue Name  
Latitude (NAD 83) 27° 27' 34.3" N  
Longitude (NAD 83) 81° 21' 26.6" W  
Climate Zone A  
Rain Zone 1  
Ground Elevation (AMSL) 15.24 m / 50.0 ft

### Link Information

Satellite Type Low Earth Orbit  
Mode TR - Transmit-Receive  
Modulation Analog and Digital  
Minimum Elevation Angle 5.0°  
Azimuth Range 0.0° to 360°  
Antenna Centerline (AGL) 5.7 m / 18.7 ft

### Antenna Information

		Receive - FCC32	Transmit - FCC32
Manufacturer		Seatel	Seatel
Model		Tracker T 6000	Tracker T 6000
Gain / Diameter		49.4 dBi / 6.0 m	47.6 dBi / 6.0 m
3-dB / 15-dB Beamwidth		0.44° / 0.88°	0.60° / 2.00°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)		10.9 20.9
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)		58.5 68.5
Interference Objectives:	Long Term Short Term	-153.0 dBW/MHz -143.0 dBW/MHz	20% 0.01%
			-140.0 dBW/4 kHz 20% -103.0 dBW/4 kHz 0.0025%

### Frequency Information

	Receive 7.0 GHz	Transmit 5.1 GHz
Emission / Frequency Range (MHz)	1M23G7W - 1M23XXX / 6900.0 - 7055.0 N0N / 6900.0 - 7055.0	1M23G7W - 1M23XXX / 5096.0 - 5250.0 N0N / 5096.0 - 5250.0
Max Great Circle Coordination Distance	374.0 km / 232.4 mi	395.0 km / 245.4 mi
Precipitation Scatter Contour Radius	533.2 km / 331.3 mi	100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

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### Coordination Values

### SEBRING RFT1, FL

Licensee Name GUSA Licensee, LLC  
Latitude (NAD 83) 27° 27' 34.3" N  
Longitude (NAD 83) 81° 21' 26.6" W  
Ground Elevation (AMSL) 15.24 m / 50.0 ft  
Antenna Centerline (AGL) 5.7 m / 18.7 ft  
Antenna Model Seatel 6.0 meter  
Antenna Mode Receive 7.0 GHz Transmit 5.1 GHz  
Interference Objectives: Long Term -153.0 dBW/MHz 20% -140.0 dBW/4 kHz 20%  
Short Term -143.0 dBW/MHz 0.01% -103.0 dBW/4 kHz 0.0025%  
Max Available RF Power 10.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 7.0 GHz		Transmit 5.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	94.01	10.40	374.00	10.40	395.00
5	0.00	89.01	10.40	374.00	10.40	395.00
10	0.00	84.01	10.40	374.00	10.40	395.00
15	0.00	79.01	10.40	374.00	10.40	395.00
20	0.00	74.01	10.40	374.00	10.40	395.00
25	0.00	69.02	10.40	374.00	10.40	395.00
30	0.00	64.02	10.40	374.00	10.40	395.00
35	0.00	59.02	10.40	374.00	10.40	395.00
40	0.00	54.02	10.40	374.00	10.40	395.00
45	0.00	49.02	10.40	374.00	10.40	395.00
50	0.00	44.02	10.40	374.00	10.40	395.00
55	0.00	39.02	10.40	374.00	10.40	395.00
60	0.00	34.03	10.40	374.00	10.40	395.00
65	0.00	29.03	10.40	374.00	10.40	395.00
70	0.00	24.03	10.40	374.00	10.40	395.00
75	0.00	19.04	10.40	374.00	10.40	395.00
80	0.00	14.05	10.40	374.00	10.40	395.00
85	0.00	9.07	10.40	374.00	10.40	395.00
90	0.00	4.14	10.40	374.00	10.40	395.00
95	0.00	1.43	10.40	374.00	10.40	395.00
100	0.00	6.08	10.40	374.00	10.40	395.00
105	0.00	11.04	10.40	374.00	10.40	395.00
110	0.00	16.02	10.40	374.00	10.40	395.00
115	0.00	21.01	10.40	374.00	10.40	395.00
120	0.00	26.01	10.40	374.00	10.40	395.00
125	0.00	31.00	10.40	374.00	10.40	395.00
130	0.00	36.00	10.40	374.00	10.40	395.00
135	0.00	41.00	10.40	374.00	10.40	395.00
140	0.00	46.00	10.40	374.00	10.40	395.00
145	0.00	51.00	10.40	374.00	10.40	395.00
150	0.00	55.99	10.40	374.00	10.40	395.00
155	0.00	60.99	10.40	374.00	10.40	395.00
160	0.00	65.99	10.40	374.00	10.40	395.00
165	0.00	70.99	10.40	374.00	10.40	395.00
170	0.00	75.99	10.40	374.00	10.40	395.00
175	0.00	80.99	10.40	374.00	10.40	395.00
180	0.00	85.99	10.40	374.00	10.40	395.00
185	0.00	90.99	10.40	374.00	10.40	395.00

# COMSEARCH

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19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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### Coordination Values

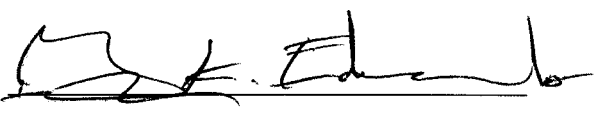
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Interference Objectives: Long Term -153.0 dBW/MHz 20% -140.0 dBW/4 kHz 20%  
Short Term -143.0 dBW/MHz 0.01% -103.0 dBW/4 kHz 0.0025%  
Max Available RF Power 10.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 7.0 GHz		Transmit 5.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	95.99	10.40	374.00	10.40	395.00
195	0.00	100.99	10.40	374.00	10.40	395.00
200	0.00	105.99	10.40	374.00	10.40	395.00
205	0.00	110.99	10.40	374.00	10.40	395.00
210	0.00	115.98	10.40	374.00	10.40	395.00
215	0.00	120.98	10.40	374.00	10.40	395.00
220	0.00	125.98	10.40	374.00	10.40	395.00
225	0.00	130.98	10.40	374.00	10.40	395.00
230	0.20	135.97	10.40	374.00	10.40	395.00
235	0.21	140.97	10.40	374.00	10.40	395.00
240	0.00	145.97	10.40	374.00	10.40	395.00
245	0.00	150.97	10.40	374.00	10.40	395.00
250	0.00	155.97	10.40	374.00	10.40	395.00
255	0.00	160.96	10.40	374.00	10.40	395.00
260	0.23	165.93	10.40	374.00	10.40	395.00
265	0.24	170.90	10.40	374.00	10.40	395.00
270	0.31	175.77	10.40	374.00	10.40	395.00
275	0.33	178.32	10.40	374.00	10.40	395.00
280	0.24	173.88	10.40	374.00	10.40	395.00
285	0.00	168.96	10.40	374.00	10.40	395.00
290	0.00	163.98	10.40	374.00	10.40	395.00
295	0.00	158.99	10.40	374.00	10.40	395.00
300	0.00	153.99	10.40	374.00	10.40	395.00
305	0.00	149.00	10.40	374.00	10.40	395.00
310	0.00	144.00	10.40	374.00	10.40	395.00
315	0.00	139.00	10.40	374.00	10.40	395.00
320	0.00	134.00	10.40	374.00	10.40	395.00
325	0.00	129.00	10.40	374.00	10.40	395.00
330	0.00	124.01	10.40	374.00	10.40	395.00
335	0.00	119.01	10.40	374.00	10.40	395.00
340	0.00	114.01	10.40	374.00	10.40	395.00
345	0.00	109.01	10.40	374.00	10.40	395.00
350	0.00	104.01	10.40	374.00	10.40	395.00
355	0.00	99.01	10.40	374.00	10.40	395.00

## 5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards  
Senior Manager  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147

DATED: July 22, 2020

## ATTACHMENT 2

### Information on Microwave Landing System Sites

For the Sebring, Florida, Globalstar gateway site, there are three potential MLS sites, i.e., Category III airports, within the 213 nautical miles transmit co-ordination distance. The Sebring site is located at 27-27-35 N, 81-21-28 W. The airports are:

JAX	Jacksonville International airport, approximately 182 nautical miles from Sebring
TPA	Tampa International Airport, approximately 70 nautical miles away
MCO	Orlando International Airport, approximately 58 nautical miles away

These sites fall outside the 39.8 nautical mile maximum trigger distance for MLS/MSS coordination. In addition, based on a directory used for MLS coordination purposes, and to the best of its knowledge, Globalstar believes that MLS is not active at any of these airport sites.