

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**East Texas Results Media, LLC**  
**JACKSONVILLE, TX**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
October 13, 2018

## TABLE OF CONTENTS

1. CONCLUSIONS .....	3
2. SUMMARY OF RESULTS .....	4
3. SUPPLEMENTAL SHOWING .....	5
4. EARTH STATION COORDINATION DATA.....	6
5. CERTIFICATION.....	10

## 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.

No 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 10/13/2018.

Company  
AT&T Corp.

## **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: 10/13/2018  
Job Number: 181013COMSTC01

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### Administrative Information

Licensee Code: WALBRO  
Licensee Name: East Texas Results Media, LLC

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### Site Information

#### JACKSONVILLE, TX

Venue Name: WALLER BUILDING  
Latitude (NAD 83): 31° 57' 48.6" N  
Longitude (NAD 83): 95° 16' 6.8" W  
Climate Zone: A  
Rain Zone: 2  
Ground Elevation (AMSL): 156.31 m / 512.8 ft

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### Link Information

Satellite Type: Geostationary  
Mode: RO - Receive-Only  
Modulation: Digital  
Satellite Arc: 60° W to 143° West Longitude  
Azimuth Range: 126.8° to 244.3°  
Corresponding Elevation Angles: 36.9° / 27.1°  
Antenna Centerline (AGL): 2.44 m / 8.0 ft

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### Antenna Information

#### Receive

Manufacturer: Prodelin  
Model: 1304  
Gain / Diameter: 40.5 dBi / 3.0 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

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

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### Frequency Information

#### Receive 4.0 GHz

Emission / Frequency Range (MHz): 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance: 309.4 km / 192.2 mi  
Precipitation Scatter Contour Radius: 492.7 km / 306.1 mi

# COMSEARCH

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### Coordination Values

### JACKSONVILLE, TX

Licensee Name East Texas Results Media, LLC  
Latitude (NAD 83) 31° 57' 48.6" N  
Longitude (NAD 83) 95° 16' 6.8" W  
Ground Elevation (AMSL) 156.31 m / 512.8 ft  
Antenna Centerline (AGL) 2.44 m / 8.0 ft  
Antenna Mode Receive 4.0 GHz  
Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.22	112.97	-10.00	213.53
5	1.17	115.34	-10.00	215.14
10	1.12	111.47	-10.00	216.60
15	1.19	107.57	-10.00	214.42
20	1.13	103.58	-10.00	216.20
25	0.99	99.55	-10.00	220.88
30	0.92	95.51	-10.00	224.64
35	0.90	91.47	-10.00	225.46
40	0.87	87.43	-10.00	227.31
45	0.69	83.41	-10.00	238.00
50	0.73	79.39	-10.00	235.34
55	0.81	75.39	-10.00	230.79
60	0.64	71.49	-10.00	240.72
65	0.50	67.66	-10.00	249.47
70	0.00	64.04	-10.00	285.28
75	0.00	60.37	-10.00	285.28
80	0.00	56.82	-10.00	285.28
85	0.00	53.42	-10.00	285.28
90	0.00	50.19	-10.00	285.28
95	0.00	47.19	-9.85	286.26
100	0.00	44.46	-9.20	290.42
105	0.00	42.06	-8.60	294.36
110	0.00	40.05	-8.06	297.89
115	0.00	38.48	-7.63	300.79
120	0.00	37.43	-7.33	302.82
125	0.00	36.93	-7.19	303.81
130	0.00	37.01	-7.21	303.65
135	0.00	37.67	-7.40	302.37
140	0.00	38.86	-7.74	300.07
145	0.00	40.55	-8.20	296.98
150	0.00	42.68	-8.76	293.32
155	0.00	45.18	-9.37	289.30
160	0.26	47.53	-9.92	278.51
165	0.38	49.54	-10.00	263.65
170	0.36	51.12	-10.00	265.47
175	0.30	52.15	-10.00	272.26
180	0.29	52.50	-10.00	273.48
185	0.00	52.45	-10.00	285.28



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Antenna Mode Receive 4.0 GHz  
Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	51.45	-10.00	285.28
195	0.00	49.86	-10.00	285.28
200	0.00	47.73	-9.97	285.47
205	0.00	45.17	-9.37	289.31
210	0.00	42.25	-8.64	294.05
215	0.00	39.03	-7.79	299.75
220	0.28	35.54	-6.77	296.24
225	0.34	32.54	-5.81	295.68
230	0.33	30.06	-4.95	302.02
235	0.36	28.16	-4.24	303.78
240	0.35	27.03	-3.79	308.38
245	0.35	26.72	-3.67	309.41
250	0.36	27.25	-3.89	306.30
255	0.31	28.66	-4.43	308.92
260	0.35	30.68	-5.17	298.39
265	0.43	33.26	-6.05	283.05
270	0.46	36.32	-7.00	272.81
275	0.40	39.78	-7.99	273.31
280	0.54	43.39	-8.93	253.46
285	0.63	47.24	-9.86	242.35
290	0.77	51.23	-10.00	233.01
295	0.84	55.37	-10.00	228.89
300	0.74	59.66	-10.00	234.76
305	0.76	63.97	-10.00	233.44
310	0.70	68.36	-10.00	237.45
315	0.85	72.75	-10.00	228.72
320	1.24	77.15	-10.00	213.04
325	1.17	81.64	-10.00	214.99
330	1.25	86.13	-10.00	212.74
335	1.21	90.63	-10.00	213.92
340	0.98	95.12	-10.00	221.15
345	0.91	99.59	-10.00	224.92
350	0.93	104.06	-10.00	223.96
355	1.08	108.53	-10.00	217.95

## 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.



Timothy O. Crutcher  
Frequency Planner  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147

DATED: October 13, 2018