

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**Gold Coast Broadcasting Company**  
**VENTURA, CA**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
October 02, 2018

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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.

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 10/02/2018.

Company

American Tower, LLC

## **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: 10/02/2018  
Job Number: 181002COMSTC04

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### Administrative Information

Licensee Code GOLCOA  
Licensee Name Gold Coast Broadcasting Company

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### Site Information

#### VENTURA, CA

Venue Name KOCP  
Latitude (NAD 83) 34° 15' 11.0" N  
Longitude (NAD 83) 119° 12' 33.0" W  
Climate Zone A  
Rain Zone 4  
Ground Elevation (AMSL) 37.22 m / 122.1 ft

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### Link Information

Satellite Type Geostationary  
Mode RO - Receive-Only  
Modulation Analog and Digital  
Satellite Arc 58° W to 143° West Longitude  
Azimuth Range 107.2° to 218.1°  
Corresponding Elevation Angles 15.1° / 42.8°  
Antenna Centerline (AGL) 2.44 m / 8.0 ft

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### Antenna Information

#### Receive

Manufacturer PRODELIN CORPORATION  
Model 136-750  
Gain / Diameter 41.7 dBi / 3.7 m  
3-dB / 15-dB Beamwidth 1.40° / 2.80°

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) 30K0G3W - 36M0G3W / 3700.0 - 4200.0  
30K0G7W - 36M0D7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 376.7 km / 234.0 mi  
Precipitation Scatter Contour Radius 377.0 km / 234.2 mi

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### Coordination Values

### VENTURA, CA

Licensee Name Gold Coast Broadcasting Company  
Latitude (NAD 83) 34° 15' 11.0" N  
Longitude (NAD 83) 119° 12' 33.0" W  
Ground Elevation (AMSL) 37.22 m / 122.1 ft  
Antenna Centerline (AGL) 2.44 m / 8.0 ft  
Antenna Model PRODELIN CORPORATION  
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	3.01	106.80	-10.30	169.76
5	3.32	101.93	-10.30	160.87
10	3.87	97.05	-10.30	149.13
15	3.90	92.15	-10.30	148.59
20	3.66	87.25	-10.30	153.36
25	3.55	82.35	-10.30	155.64
30	3.37	77.46	-10.30	159.59
35	2.97	72.60	-10.30	170.58
40	1.66	67.84	-10.30	202.40
45	1.47	63.03	-10.30	205.17
50	1.44	58.22	-10.30	205.97
55	1.45	53.43	-10.30	205.65
60	1.51	48.65	-10.03	205.23
65	1.07	44.03	-8.91	223.63
70	0.63	39.51	-7.10	258.89
75	0.34	35.07	-5.33	298.99
80	0.25	30.69	-3.58	323.88
85	0.00	26.60	-2.62	336.91
90	0.00	22.70	-1.38	346.13
95	0.00	19.29	0.13	357.59
100	0.00	16.65	1.71	369.85
105	0.00	15.22	2.57	376.66
110	0.00	15.31	2.51	376.19
115	0.00	16.92	1.55	368.58
120	0.00	19.68	-0.11	355.80
125	0.00	23.17	-1.57	344.74
130	0.00	26.92	-2.68	336.44
135	0.00	30.55	-3.52	330.33
140	0.00	34.03	-4.91	320.32
145	0.00	37.31	-6.22	310.44
150	0.00	40.36	-7.44	302.07
155	0.00	43.11	-8.55	294.70
160	0.00	45.51	-9.40	289.11
165	0.00	47.49	-9.80	286.57
170	0.00	48.96	-10.09	284.69
175	0.00	49.88	-10.28	283.53
180	0.00	50.19	-10.30	283.38
185	0.00	49.88	-10.28	283.53



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<b>Coordination Values</b>	<b>VENTURA, CA</b>
Licensee Name	Gold Coast Broadcasting Company
Latitude (NAD 83)	34° 15' 11.0" N
Longitude (NAD 83)	119° 12' 33.0" W
Ground Elevation (AMSL)	37.22 m / 122.1 ft
Antenna Centerline (AGL)	2.44 m / 8.0 ft
Antenna Model	PRODELIN CORPORATION
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	48.96	-10.09	284.69
195	0.00	47.49	-9.80	286.57
200	0.00	45.74	-9.45	288.81
205	0.00	44.35	-9.04	291.46
210	0.00	43.38	-8.65	294.01
215	0.00	42.86	-8.44	295.38
220	0.00	42.80	-8.42	295.52
225	0.00	43.22	-8.59	294.42
230	0.00	44.09	-8.94	292.14
235	0.00	45.39	-9.38	289.27
240	0.00	47.08	-9.72	287.09
245	0.00	49.12	-10.12	284.49
250	0.00	51.46	-10.30	283.38
255	0.00	54.07	-10.30	283.38
260	0.28	56.73	-10.30	273.76
265	0.48	59.66	-10.30	250.61
270	0.39	62.90	-10.30	260.21
275	0.40	66.23	-10.30	259.29
280	0.24	69.71	-10.30	278.91
285	0.30	73.20	-10.30	271.13
290	0.37	76.76	-10.30	263.24
295	0.43	80.38	-10.30	255.72
300	0.85	84.01	-10.30	226.86
305	1.52	87.69	-10.30	206.10
310	2.19	91.47	-10.30	188.85
315	2.24	95.26	-10.30	187.59
320	2.38	99.06	-10.30	184.31
325	2.54	102.85	-10.30	180.79
330	2.12	106.46	-10.30	190.27
335	2.21	110.13	-10.30	188.40
340	2.93	113.96	-10.30	171.54
345	2.53	117.30	-10.30	180.97
350	2.53	116.49	-10.30	180.86
355	2.55	111.64	-10.30	180.39

## 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  
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DATED: October 02, 2018