

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**Scripps Broadcasting Holdings, LLC**  
**CAPE CORAL, FL**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
June 10, 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**

There were no great circle interference cases identified during the interference study of the proposed earth station.

### **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 on 06/10/2018.

## **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: 06/10/2018  
Job Number: 180610COMSTC02

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### Administrative Information

Licensee Code: SCRIBR  
Licensee Name: Scripps Broadcasting Holdings, LLC

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### Site Information

#### CAPE CORAL, FL

Venue Name: TV  
Latitude (NAD 83): 26° 38' 50.5" N  
Longitude (NAD 83): 81° 59' 19.0" W  
Climate Zone: B  
Rain Zone: 1  
Ground Elevation (AMSL): 3.31 m / 10.9 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: 138.0° to 256.0°  
Corresponding Elevation Angles: 50.4° / 17.4°  
Antenna Centerline (AGL): 2.74 m / 9.0 ft

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### Antenna Information

#### Receive

Manufacturer: Patriot  
Model: PRT-450  
Gain / Diameter: 44.0 dBi / 4.5 m  
3-dB / 15-dB Beamwidth: 0.60° / 1.22°

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: 573.2 km / 356.1 mi  
Precipitation Scatter Contour Radius: 588.8 km / 365.8 mi

# COMSEARCH

## Earth Station Data Sheet

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### Coordination Values

### CAPE CORAL, FL

Licensee Name Scripps Broadcasting Holdings, LLC  
Latitude (NAD 83) 26° 38' 50.5" N  
Longitude (NAD 83) 81° 59' 19.0" W  
Ground Elevation (AMSL) 3.31 m / 10.9 ft  
Antenna Centerline (AGL) 2.74 m / 9.0 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	0.00	103.31	-10.00	412.20
5	0.00	108.06	-10.00	412.20
10	0.00	112.80	-10.00	412.20
15	0.00	110.30	-10.00	412.20
20	0.00	107.40	-10.00	412.20
25	0.00	104.41	-10.00	412.20
30	0.00	101.35	-10.00	412.20
35	0.00	98.24	-10.00	412.20
40	0.00	95.09	-10.00	412.20
45	0.00	91.91	-10.00	412.20
50	0.00	88.73	-10.00	412.20
55	0.00	85.55	-10.00	412.20
60	0.00	82.39	-10.00	412.20
65	0.00	79.27	-10.00	412.20
70	0.00	76.20	-10.00	412.20
75	0.00	73.20	-10.00	412.20
80	0.00	70.28	-10.00	412.20
85	0.00	67.47	-10.00	412.20
90	0.00	64.78	-10.00	412.20
95	0.00	62.25	-10.00	412.20
100	0.00	59.88	-10.00	412.20
105	0.00	57.72	-10.00	412.20
110	0.00	55.79	-10.00	412.20
115	0.00	54.12	-10.00	412.20
120	0.00	52.73	-10.00	412.20
125	0.00	51.65	-10.00	412.20
130	0.00	50.91	-10.00	412.20
135	0.00	50.51	-10.00	412.20
140	0.00	50.48	-10.00	412.20
145	0.00	50.80	-10.00	412.20
150	0.00	51.47	-10.00	412.20
155	0.00	52.48	-10.00	412.20
160	0.00	53.81	-10.00	412.20
165	0.00	55.43	-10.00	412.20
170	0.00	57.22	-10.00	412.20
175	0.00	58.45	-10.00	412.20
180	0.00	58.87	-10.00	412.20
185	0.00	58.45	-10.00	412.20



# COMSEARCH

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### Coordination Values

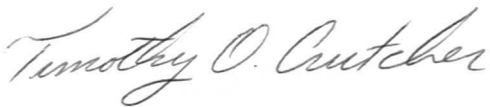
### CAPE CORAL, FL

Licensee Name                   Scripps Broadcasting Holdings, LLC  
Latitude (NAD 83)            26° 38' 50.5" N  
Longitude (NAD 83)           81° 59' 19.0" W  
Ground Elevation (AMSL)     3.31 m / 10.9 ft  
Antenna Centerline (AGL)    2.74 m / 9.0 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)
190	0.00	57.22	-10.00	412.20
195	0.00	55.29	-10.00	412.20
200	0.00	52.77	-10.00	412.20
205	0.00	49.79	-10.00	412.20
210	0.00	46.46	-9.68	416.23
215	0.00	42.85	-8.80	427.38
220	0.00	39.03	-7.79	440.63
225	0.00	35.06	-6.62	456.41
230	0.00	30.96	-5.27	474.70
235	0.00	27.03	-3.80	496.31
240	0.00	23.48	-2.27	519.80
245	0.00	20.49	-0.79	543.44
250	0.00	18.36	0.40	563.24
255	0.00	17.40	0.99	573.17
260	0.00	17.80	0.74	568.94
265	0.00	19.48	-0.24	552.49
270	0.00	22.15	-1.63	529.81
275	0.00	25.49	-3.16	505.94
280	0.00	29.29	-4.67	483.44
285	0.00	33.38	-6.09	463.80
290	0.00	37.66	-7.40	445.83
295	0.00	42.08	-8.60	429.91
300	0.00	46.60	-9.71	415.81
305	0.00	51.19	-10.00	412.20
310	0.00	55.84	-10.00	412.20
315	0.00	60.52	-10.00	412.20
320	0.00	65.23	-10.00	412.20
325	0.00	69.96	-10.00	412.20
330	0.00	74.71	-10.00	412.20
335	0.00	79.47	-10.00	412.20
340	0.00	84.23	-10.00	412.20
345	0.00	89.00	-10.00	412.20
350	0.00	93.78	-10.00	412.20
355	0.00	98.55	-10.00	412.20

## 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: June 10, 2018