

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**Post-Newsweek Stations Florida**  
**PEMBROKE PARK, FL**  
**(4.5 Meter)**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
August 28, 2008

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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**

No great circle interference cases were identified during the interference study of the proposed earth station. There were no 4 GHz terrestrial paths identified within the coordination contours of the proposed earth station site.

### 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 08/28/2008.

<u>Company</u>
Comsearch

## **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: 08/28/2008  
Job Number: 080828COMSGE01

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign PEMBROKE  
Licensee Code POSSFL  
Licensee Name Post-Newsweek Stations Florida - WPLG

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### Site Information

**PEMBROKE PARK, FL**

Venue Name  
Latitude (NAD 83) 25° 59' 5.1" N  
Longitude (NAD 83) 80° 10' 36.6" W  
Climate Zone B  
Rain Zone 1  
Ground Elevation (AMSL) 3.05 m / 10.0 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 140.0° to 257.3°  
Corresponding Elevation Angles 52.2° / 15.9°  
Antenna Centerline (AGL) 2.74 m / 9.0 ft

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### Antenna Information

**Receive - FCC32**

Manufacturer EASI  
Model 4.5 Meter  
Gain / Diameter 43.5 dBi / 4.5 m  
3-dB / 15-dB Beamwidth 1.10° / 2.20°

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) 4M50G7F - 8M00G7F / 3700.0 - 4200.0

Max Great Circle Coordination Distance 588.5 km / 365.6 mi  
Precipitation Scatter Contour Radius 595.0 km / 369.7 mi

# COMSEARCH

## Earth Station Data Sheet

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### Coordination Values

### PEMBROKE PARK, FL

Licensee Name Post-Newsweek Stations Florida -  
Latitude (NAD 83) 25° 59' 5.1" N  
Longitude (NAD 83) 80° 10' 36.6" W  
Ground Elevation (AMSL) 3.05 m / 10.0 ft  
Antenna Centerline (AGL) 2.74 m / 9.0 ft  
Antenna Model EASI 4.5 Meter  
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	102.19	-10.00	412.20
5	0.00	106.98	-10.00	412.20
10	0.00	111.77	-10.00	412.20
15	0.00	110.58	-10.00	412.20
20	0.00	107.84	-10.00	412.20
25	0.00	105.01	-10.00	412.20
30	0.00	102.10	-10.00	412.20
35	0.00	99.13	-10.00	412.20
40	0.00	96.12	-10.00	412.20
45	0.00	93.07	-10.00	412.20
50	0.00	90.01	-10.00	412.20
55	0.00	86.95	-10.00	412.20
60	0.00	83.90	-10.00	412.20
65	0.00	80.89	-10.00	412.20
70	0.00	77.92	-10.00	412.20
75	0.00	75.00	-10.00	412.20
80	0.00	72.17	-10.00	412.20
85	0.00	69.44	-10.00	412.20
90	0.00	66.82	-10.00	412.20
95	0.00	64.34	-10.00	412.20
100	0.00	62.02	-10.00	412.20
105	0.00	59.89	-10.00	412.20
110	0.00	57.97	-10.00	412.20
115	0.00	56.28	-10.00	412.20
120	0.00	54.86	-10.00	412.20
125	0.00	53.72	-10.00	412.20
130	0.00	52.90	-10.00	412.20
135	0.00	52.39	-10.00	412.20
140	0.00	52.22	-10.00	412.20
145	0.00	52.39	-10.00	412.20
150	0.00	52.89	-10.00	412.20
155	0.00	53.72	-10.00	412.20
160	0.00	54.85	-10.00	412.20
165	0.00	56.27	-10.00	412.20
170	0.00	57.94	-10.00	412.20
175	0.00	59.20	-10.00	412.20
180	0.00	59.63	-10.00	412.20
185	0.00	59.20	-10.00	412.20



# COMSEARCH

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### Coordination Values

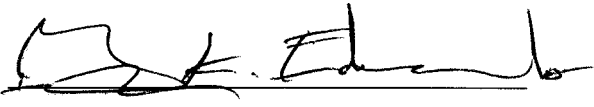
### PEMBROKE PARK, FL

Licensee Name Post-Newsweek Stations Florida -  
Latitude (NAD 83) 25° 59' 5.1" N  
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Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	57.94	-10.00	412.20
195	0.00	55.96	-10.00	412.20
200	0.00	53.39	-10.00	412.20
205	0.00	50.35	-10.00	412.20
210	0.00	46.96	-9.79	414.76
215	0.00	43.30	-8.91	425.91
220	0.00	39.44	-7.90	439.14
225	0.00	35.42	-6.73	454.87
230	0.00	31.28	-5.38	473.10
235	0.00	27.15	-3.85	495.58
240	0.00	23.33	-2.20	520.86
245	0.00	20.00	-0.52	547.77
250	0.00	17.44	0.96	572.70
255	0.00	16.04	1.87	588.48
260	0.00	16.10	1.83	587.84
265	0.00	17.59	0.87	571.11
270	0.00	20.22	-0.64	545.84
275	0.00	23.59	-2.32	518.96
280	0.00	27.44	-3.96	493.87
285	0.00	31.59	-5.49	471.57
290	0.00	35.94	-6.89	452.69
295	0.00	40.43	-8.17	435.61
300	0.00	45.00	-9.33	420.60
305	0.00	49.64	-10.00	412.20
310	0.00	54.33	-10.00	412.20
315	0.00	59.05	-10.00	412.20
320	0.00	63.80	-10.00	412.20
325	0.00	68.57	-10.00	412.20
330	0.00	73.36	-10.00	412.20
335	0.00	78.16	-10.00	412.20
340	0.00	82.96	-10.00	412.20
345	0.00	87.77	-10.00	412.20
350	0.00	92.58	-10.00	412.20
355	0.00	97.38	-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.

BY: 

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

DATED: August 28, 2008