

## Exhibit 13 A - Protection to WPOI 268C St. Petersburg, FL



### 47 CFR 74.1204 Compliance

This map shows that there is no prohibited contour overlap from the proposed translator to the protected contour of WPOI (FM) 268C St. Petersburg, FL

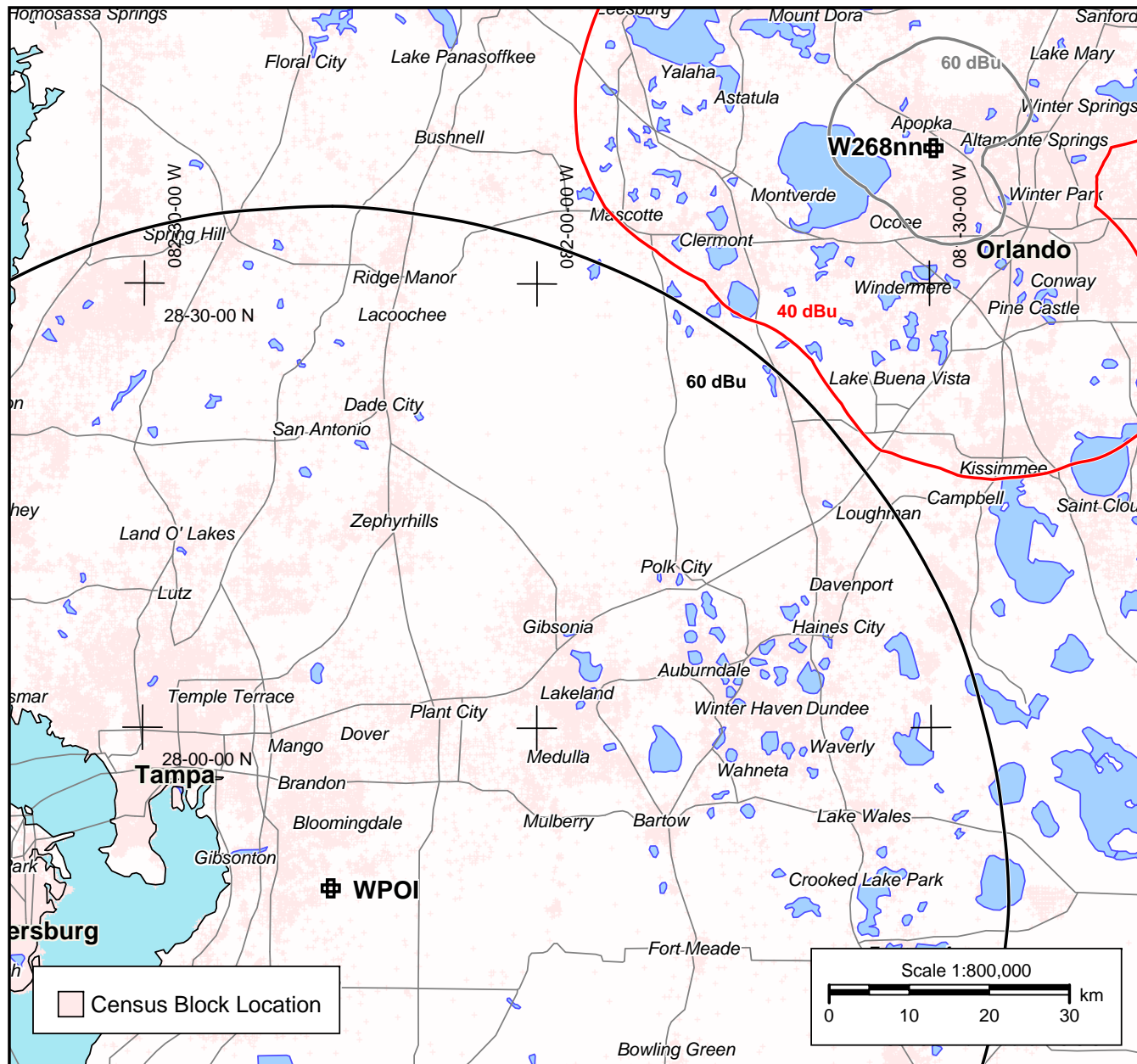
#### WPOI

St. Petersburg, FL  
BMLH20110307ABQ  
Channel: 268C  
Latitude: 27-49-10 N  
Longitude: 082-15-39 W  
ERP: 100.00 kW  
HAAT 470.0 m  
Frequency: 101.5 MHz  
AMSL Height: 490.5 m  
Elevation: 23.5 m  
Horiz. Pattern: Omni  
Study Date: 5/13/2016

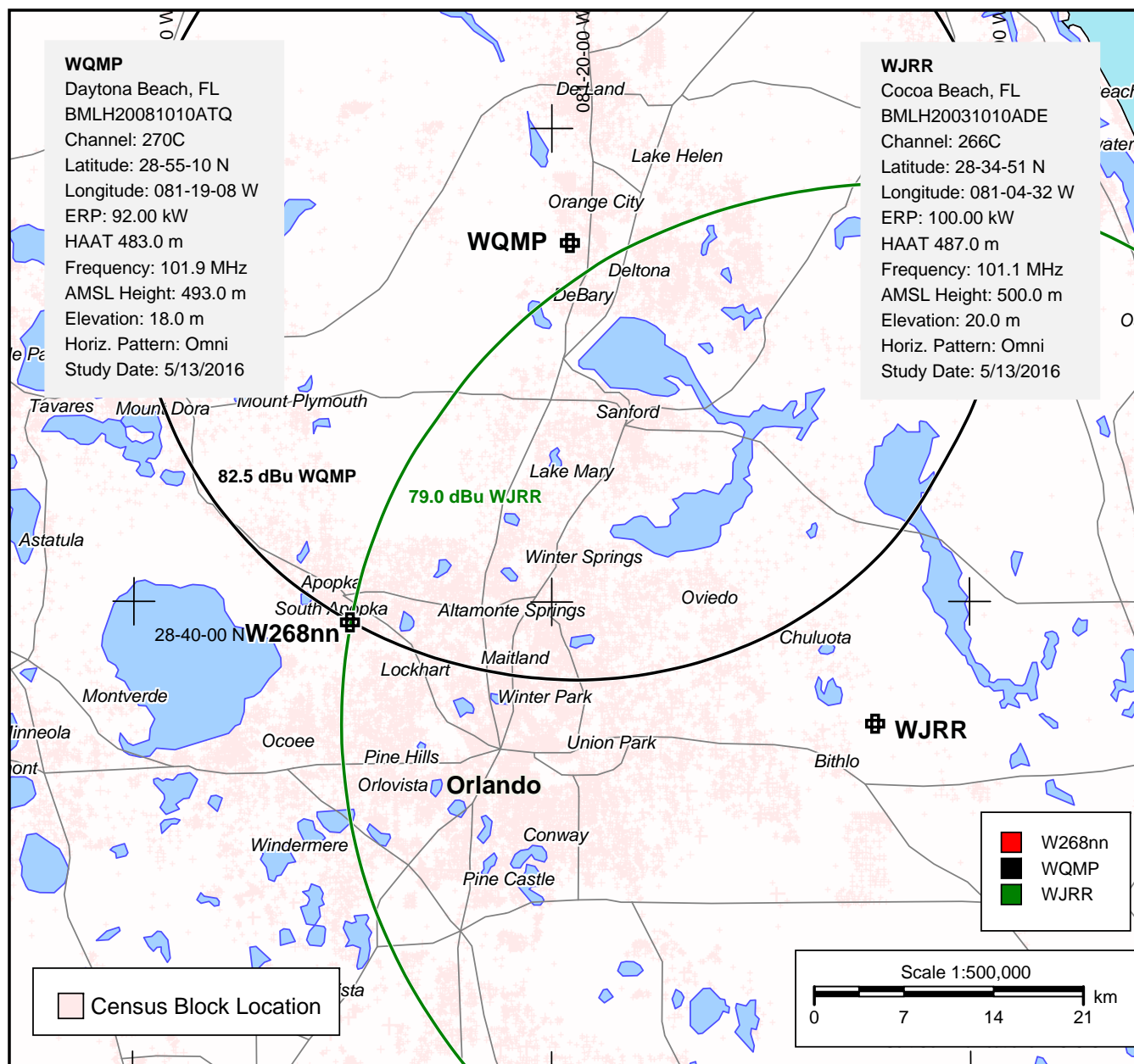
#### W268nn

Orlando, FL

Channel: 268D  
Latitude: 28-39-08 N  
Long: 081-29-39.70 W  
ERP: 0.25 kW  
HAAT 100.19 m  
Frequency: 101.5 MHz  
AMSL Height: 125.0 m  
Elevation: 30.0 m  
Horiz. Pattern: Directional  
Study Date: 5/13/2016



## Exhibit 13 B - Protection to 2nd Adjacent Channels



### 47 CFR 74.1204 Compliance

As this map shows, WQMP (FM) 270C Daytona Beach places 82.5 dBu at the proposed translator site. WJRR 266C places 79.0 dBu at the proposed translator site.

Using an Undesired to Desired (U/D) signal interference analysis the more stringent 2nd adjacent protection is to WJRR (79 dBu). The undesired signal level is 40 dBu higher, or 119 dBu. Exhibit 13 C, following, is a table that shows the single bay ERI 100 A antenna will not place a 119 dBu signal within 100 feet of the ground around the proposed tower.

Therefore the instant proposal satisfies 47 CFR 74.1204.

**W268nn Apopka, FL**  
**Proposed 250 Watts ERP**

Maximum ERP      Interfering contour value ----->      119      dBu  
 0.25      kW      RCAGL (m)----->      97      meters  
                          Antenna Type ----->      1

Antenna Type      1      =      ERI, 1-bay, full-wave spaced

Angle Below Horizontal (degrees)	Vertical Pattern**** (REL. FIELD)	W268nn ERP (kW)	W268nn ERP (dBk)	Proposed Free-Space Distance to 119 dBu interfering contour (meters)	Slant Distance (meters) *	Height of 119 dBu interfering contour above ground (feet)**	Proposed Interference within 30 ' of ground level?	Horizontal Distance (meters) ***	Horizontal Distance (feet) ***
0	1.000	0.2500	-6.021	124.2	N/A	318.2			
5	0.998	0.2490	-6.038	123.9	1,008.5	282.8	No	123.4	405.0
10	0.987	0.2435	-6.134	122.5	506.2	248.4	No	120.7	395.9
15	0.970	0.2352	-6.285	120.4	339.6	216.0	No	116.3	381.7
20	0.950	0.2256	-6.466	117.9	257.0	185.9	No	110.8	363.6
25	0.920	0.2116	-6.745	114.2	208.0	159.9	No	103.5	339.6
30	0.885	0.1958	-7.082	109.9	175.8	138.0	No	95.2	312.2
35	0.842	0.1772	-7.514	104.5	153.2	121.5	No	85.6	281.0
40	0.800	0.1600	-7.959	99.3	136.7	108.8	No	76.1	249.6
45	0.745	0.1388	-8.577	92.5	124.3	103.7	No	65.4	214.6
50	0.690	0.1190	-9.244	85.7	114.7	102.9	No	55.1	180.7
55	0.630	0.0992	-10.034	78.2	107.3	108.0	No	44.9	147.2
60	0.565	0.0798	-10.980	70.1	101.5	118.9	No	35.1	115.1
65	0.498	0.0620	-12.076	61.8	97.0	134.4	No	26.1	85.7
70	0.428	0.0458	-13.392	53.1	93.5	154.4	No	18.2	59.6
75	0.355	0.0315	-15.016	44.1	91.0	178.6	No	11.4	37.4
80	0.280	0.0196	-17.077	34.8	89.3	205.9	No	6.0	19.8
85	0.205	0.0105	-19.786	25.5	88.2	235.1	No	2.2	7.3
90	0.130	0.0042	-23.742	16.1	87.9	265.3	No	0.0	0.0

\* Slant distance from antenna center of radiation to location 30 feet (9.1 meters) above ground level at angle below horizontal.

\*\* A negative number indicates that the interfering contour is predicted to reach ground level. If a negative number is present, the interfering contour reaches ground level at the "Horizontal Distance" described below.

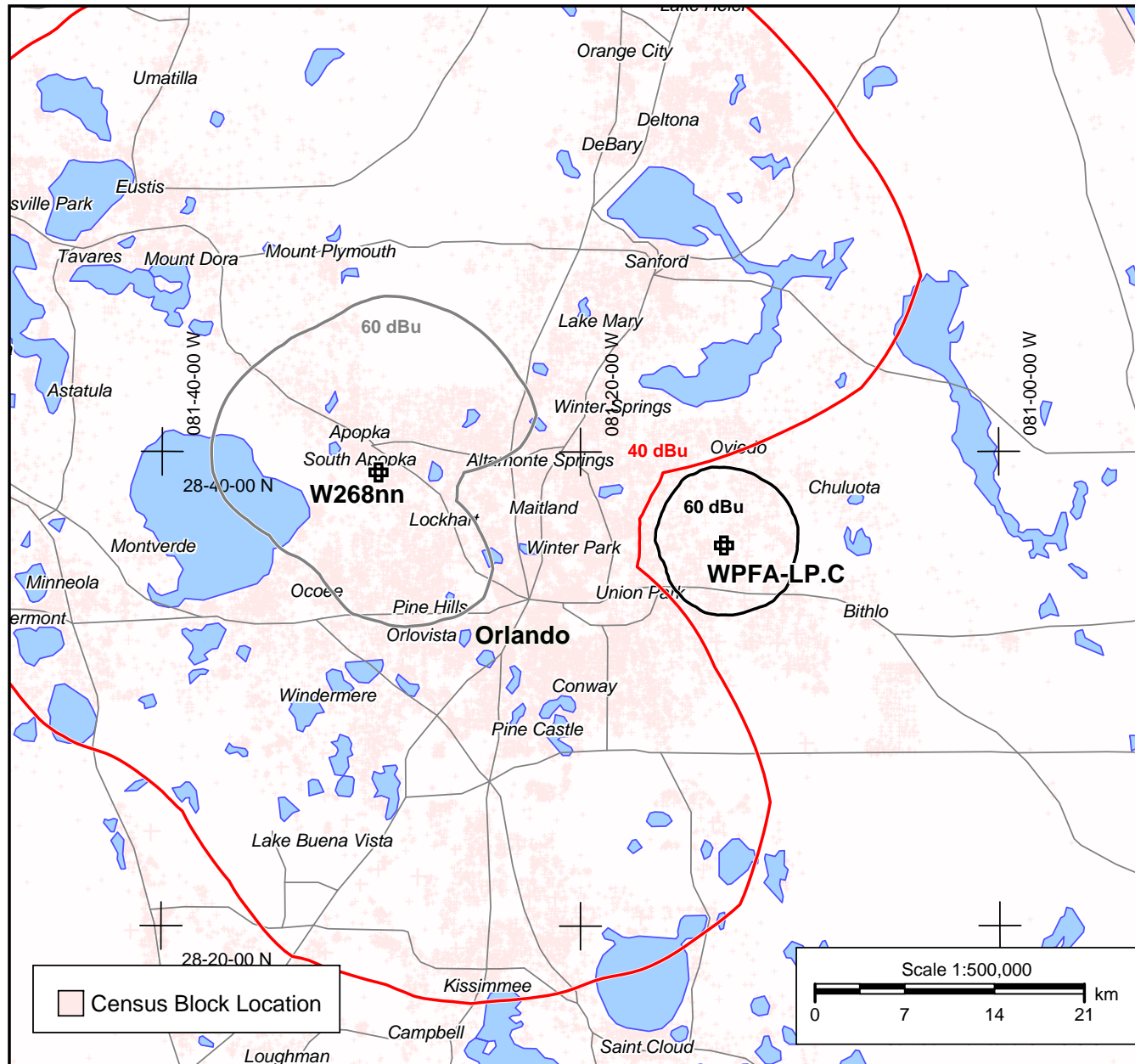
\*\*\* Horizontal distance from tower base to interfering contour at the indicated height above ground level. If a negative height above ground level is indicated, this horizontal distance is the distance from the tower base to the interfering contour. This horizontal distance is only relevant if the proposed interference is predicted to occur within 30 feet of ground level.

## Exhibit 13 D - Protection to WPFA-LP CP 268L1 Winter Park



### 47 CFR 74.1204 Compliance

This map shows that there is no prohibited contour overlap from the proposed translator to the protected contour of the Construction Permit for WPFA-LP Winter Park, FL.



#### WPFA-LP.C

Winter Park, FL  
BNPL20131113AXW  
Channel: 268L1  
Latitude: 28-36-03.40 N  
Longitude: 081-13-08.70 W  
ERP: 0.039 kW  
HAAT 48.1 m  
Frequency: 101.5 MHz  
AMSL Height: 63.1 m  
Elevation: 16.1 m  
Horiz. Pattern: Omni  
Study Date: 5/13/2016

#### W268nn

Orlando, FL

Channel: 268D  
Latitude: 28-39-08 N  
Long: 081-29-39.70 W  
ERP: 0.25 kW  
HAAT 100.19 m  
Frequency: 101.5 MHz  
AMSL Height: 125.0 m  
Elevation: 30.0 m  
Horiz. Pattern: Directional  
Study Date: 5/13/2016