

## **TECHNICAL REPORT WPSM(FM).CP 216C3 Minor Modification**

This technical report has been developed in support of an application for a minor modification to WPSM(FM).CP 216C3 at Fort Walton Beach, FL, FCC facility I.D.

22811. A change in the antenna COR AGL and increase in ERP to 14 kW is submitted.

### **Globe 30 Second Terrain Utilized:**

The applicant has used GLOBE 30 Second terrain database throughout. Section 73.212 permits the use of a computerized terrain database “except in cases of dispute,” but does not prescribe a specific database, thereby permitting an applicant to use any recognized computerized terrain database. It is noted that although the Commission denied the use of this database in a previous WPSM application recently its use has been permitted by several NCE applications that were initially dismissed but reinstated.

### **§ 73.312 Topographic data.**

(d) In lieu of maps, **the average terrain elevation may be computer generated except in cases of dispute, using elevations from a 30 second, point or better topographic data file.** The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps.

Furthermore, the FCC’s website HAAT determination tool provided at <https://www.fcc.gov/media/radio/haat-calculator> uses GLOBE 30 second as the default terrain database. The applicant has therefore elected its use in connection with the instant application. In an abundance of caution, the critical FMOVER analyses have also been performed with the FCC 30 meter (1 second) terrain database are included.

### **WPSM(FM) Modification Analysis:**

An overlap study (exhibit E-1) shows WPSM(FM) modification does not produce

any interference overlaps to existing facilities. Interference plots and FM Over tabulations to WAKJ(FM) 217A at Defuniak Springs, FL and WHIL(FM) 217C at Mobile, AL using Globe and FCC 30 meter terrain are included in exhibits E-2 to E-7. The WPSM(FM).CP modification places a 60 dBu contour over 100% of the Fort Walton Beach, FL community of license (exhibit E-8).

**WPSM(FM) Antenna System:**

The facility is located on the existing tower, ASR #1228891, at coordinates **30-24-35.9N 086-37-23.6W ( NAD83)**. A Shively 6810 three bay, full wave, directional antenna (exhibit E-9) is specified at a COR AGL of 104.0 meters, 107.7 meters AMSL, 98.0 meter HAAT (exhibit E-10) and will operate at an ERP of 14.0 kW ERP.

**RF Exposure Calculation:**

The RF for the proposed facility was calculated using the Commission's FM MODEL program (exhibit E-11) to be 53.06  $\mu\text{Watts/cm}^2$  at a distance of 21.2 meters from the tower. Similar calculations for other collocated FM facilities at the controlled access site are provided and summarized below:

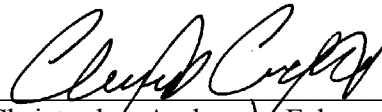
Facility	Channel	ERP (kW)	Height AGL (m)	Antenna	RF ( $\mu\text{W/cm}^2$ )	% controlled limit
WPSM	216C3	14	104.0	SHI 6810-3/full	53.06	5.3
WECQ	221C3	19	117.2	SHI 6810-4/0.5	1.85	0.2
WHWY	251C1	100	148.0	JAM JSW-8/0.8	1.20	1.2
WTKE-FM	262A	3	144.4	JAM JSW-8/0.8	0.04	0.0
WWAV	271C2	12	106.7	ERI APX-4/0.5	1.20	1.2
WZLB	276C2	50	126.0	ERI APX-4/0.5	3.20	0.32
WFDM(AM)	1400	1	94°			16.0 <sup>1</sup>

**Total RF % of controlled limit = 30.3%.**

<sup>1</sup> WFDM is located 48.5 meters from the WPSM tower and its worst case contribution at the edge of its 3 meter fence was determined from OET65 Figure 2 to be 22 V/m or 3.6% of the controlled limit or 0.16 A/m or 16% of the controlled limit. 16% is reported above.

**Conclusion:**

It is concluded that the minor modification of WPSM(FM) is in full compliance with the Commission rules and policies.



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## E-1 WPSM(FM).CP Mod. Overlap Study

REFERENCE										CH# 216C3 - 91.1 MHz, Pwr= 14 kW DA, HAAT= 98.0 M, COR= 107.7 M		DISPLAY DATES	
30 24 35.90 N.										Average Protected F(50-50)= 34.17 km		DATA 01-31-22	
86 37 23.60 W.										Standard Directional		SEARCH 02-02-22	
CH	CALL	TYPE	ANT	AZI	DI ST	LAT	PWR(KW)	INT(km)	PRO(km)	*IN*	*OUT*		
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)		
216C3	WPSM	LIC	DEN	29.0	0.09	30 24 38.70	11.000		---	Reference---			
Fort Walton Beach		FL		209.0	BLED20071210ABS	86 37 21.80	105	110	Destiny Worship Center Inc				
216C3	WPSM	CP	DCN	0.0	0.00	30 24 35.90	13.000		---	Reference---			
Fort Walton Beach		FL		250.1	0000155098	86 37 23.60	103	110	Destiny Worship Center Inc				
217C	WHIL	LIC	DCN	285.3	119.66	30 41 20.70	100.000	95.2	60.1	0.9	17.3		
Mobile		AL		104.7	BLED19950728KE	87 49 49.00	325	356	The Board Of Trustees Of T				
217A	WAKJ	LIC	_CN	56.4	55.37	30 41 05.60	1.200	25.2	15.6	5.4	0.9		
Defuniak Springs		FL		236.6	BLED20060208AAO	86 08 27.70	69	116	First Baptist Church, Inc.				
215C1	WOWB	LIC	DCN	338.0	107.29	31 18 13.60	100.000	86.8	57.9	2.5	24.3		
Brewton		AL		157.7	BLED20060403ACX	87 02 49.90	153	227	Agape Educational Media, I				
219C3	WEGS	LIC	_CN	298.1	50.27	30 37 20.70	20.000	4.2	41.2	25.4	7.3		
Milton		FL		117.9	BLED20030725AAC	87 05 11.90	112	135	Florida Public Radio, Inc.				
213C3	WTGF	LIC	_CN	294.2	53.06	30 36 15.70	24.000	3.5	34.2	28.1	17.0		
Milton		FL		113.9	BLED19931115KG	87 07 44.90	75	93	Faith Bible College, Inc.				
216A	WFPW	CP	_CN	38.7	110.18	31 10 52.50	0.210	39.5	11.6	47.1	23.6		
Battens Crossroads		AL		219.1	0000165515	85 53 55.10	84	149	T.P. Arrington Educational				
214C1	WKGK-FM	LIC	_CN	97.6	93.12	30 17 45.70	100.000	6.2	52.6	52.8	37.1		
Panama City		FL		278.1	BLED20090327ADW	85 39 41.70	109	115	Gulf Coast State College				
216A	WHMF	LIC	_CN	74.2	142.46	30 45 03.60	1.300	43.1	11.3	69.8	46.6		
Marianna		FL		254.9	BLED20141020ACI	85 11 18.70	39	72	Radio 74 Internationale				
219A	WFFL	LIC	_CN	107.0	85.15	30 11 00.50	1.500	1.7	18.3	48.1	63.3		
Panama City		FL		287.4	0000159041	85 46 33.00	81	83	Family Worship Center Chur				

Terrain database is GLOBE 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.  
All separation margins (if shown) include rounding.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni) , Polarization (C,H,V,E), Beamtilt(Y,N,X)  
\*\*\*affixed to 'IN' or 'OUT' values = site inside restricted contour.  
« = Station meets FCC minimum distance spacing for its class.  
Reference station has protected zone issue: AM tower

# E-2 WPSM(FM).CP Mod. WAKJ(FM) 217A Interference Plot

FMCommander Single Allocation Study - 02-02-2022 - GLOBE 30 Sec  
WPSM.C's Overlaps (In= 5.38 km, Out= 0.91 km)

WPSM.C CH 216 C3 DA

Lat= 30 24 35.90, Lng= 86 37 23.60

14.0 kW 98 m HAAT, 107.7 m COR

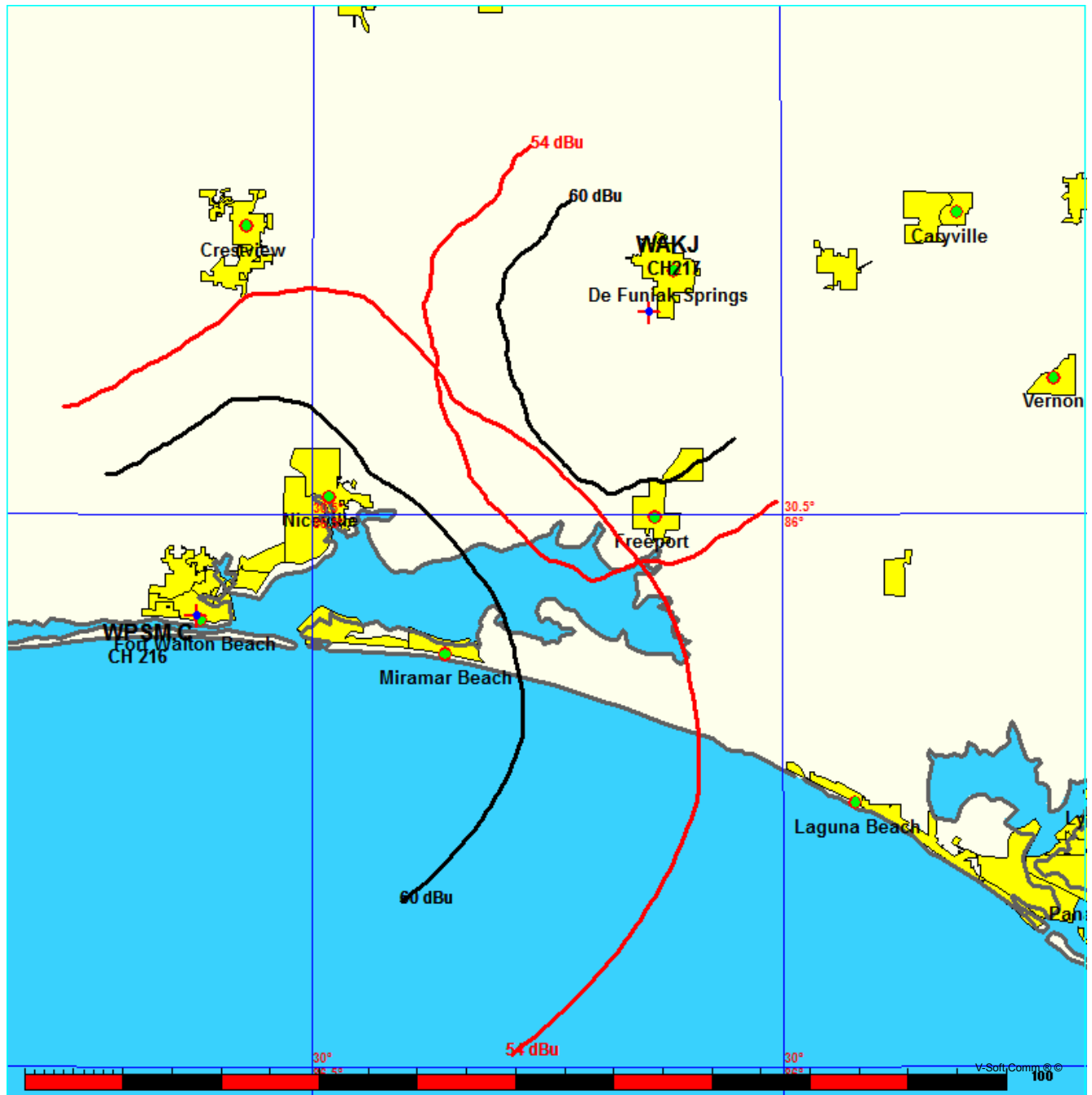
Prot.= 60 dBu, Intef.= 54 dBu

WAKJ CH 217 A BLED20060208AAO

Lat= 30 41 05.60, Lng= 86 08 27.70

1.2 kW 69 m HAAT, 116 m COR

Prot.= 60 dBu, Intef.= 54 dBu



## E-3 WPSM(FM) 216C3.CP Mod. FMOver Tabulation to WAKJ(FM) 217A

WPSM.C

WAKJ BLED20060208AAO

Channel = 216C3  
 Max ERP = 14 kW  
 RCAMSL = 107.7 m  
 N. Lat. 30 24 35.90  
 W. Lng. 86 37 23.60  
 Protected  
 60 dBu

Channel = 217A  
 Max ERP = 1.2 kW  
 RCAMSL = 115.96 m  
 N. Lat. 30 41 05.60  
 W. Lng. 86 08 27.70  
 Interfering  
 Terrain Data: GLOBE 30 Sec 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
356.0	001.7347	0074.2	018.3	255.5	001.2000	0061.1	049.0	41.49	
357.0	001.8043	0074.3	018.5	255.7	001.2000	0060.9	048.6	41.58	
358.0	001.8754	0074.4	018.7	255.8	001.2000	0060.8	048.3	41.68	
359.0	001.9478	0074.5	018.9	256.0	001.2000	0060.6	047.9	41.78	
000.0	002.0216	0074.6	019.1	256.1	001.2000	0060.5	047.5	41.88	
001.0	002.1185	0074.8	019.3	256.3	001.2000	0060.4	047.2	41.99	
002.0	002.2288	0074.9	019.6	256.5	001.2000	0060.2	046.8	42.10	
003.0	002.3305	0074.9	019.8	256.6	001.2000	0060.1	046.4	42.21	
004.0	002.4461	0074.9	020.0	256.8	001.2000	0060.0	046.0	42.34	
005.0	002.5646	0075.3	020.3	257.0	001.2000	0059.9	045.5	42.46	
006.0	002.6736	0076.5	020.7	257.3	001.2000	0059.7	045.1	42.60	
007.0	002.7973	0077.9	021.1	257.7	001.2000	0059.6	044.6	42.76	
008.0	002.9111	0079.3	021.5	258.0	001.2000	0059.7	044.1	42.92	
009.0	003.0272	0079.9	021.8	258.1	001.2000	0059.7	043.7	43.08	
010.0	003.1587	0080.1	022.0	258.2	001.2000	0059.7	043.2	43.24	
011.0	003.2122	0080.1	022.1	258.2	001.2000	0059.7	042.8	43.38	
012.0	003.2525	0079.9	022.1	258.0	001.2000	0059.7	042.5	43.51	
013.0	003.2932	0079.9	022.2	257.9	001.2000	0059.6	042.1	43.64	
014.0	003.3477	0080.0	022.3	257.7	001.2000	0059.6	041.7	43.79	
015.0	003.4027	0080.3	022.4	257.7	001.2000	0059.6	041.3	43.94	
016.0	003.4442	0081.0	022.6	257.6	001.2000	0059.7	040.9	44.09	
017.0	003.4860	0081.7	022.7	257.5	001.2000	0059.7	040.5	44.25	
018.0	003.5421	0082.4	022.9	257.4	001.2000	0059.7	040.0	44.42	
019.0	003.5987	0083.0	023.1	257.3	001.2000	0059.7	039.6	44.59	
020.0	003.6414	0083.6	023.2	257.2	001.2000	0059.8	039.2	44.75	
021.0	003.6414	0084.1	023.3	257.0	001.2000	0059.9	038.8	44.92	
022.0	003.6414	0084.6	023.4	256.7	001.2000	0060.1	038.4	45.08	
023.0	003.6414	0085.1	023.4	256.4	001.2000	0060.3	038.1	45.25	
024.0	003.6414	0085.9	023.5	256.2	001.2000	0060.5	037.7	45.43	
025.0	003.6414	0086.8	023.6	255.9	001.2000	0060.7	037.3	45.62	
026.0	003.6414	0087.7	023.8	255.6	001.2000	0061.0	036.9	45.81	
027.0	003.6414	0088.4	023.9	255.3	001.2000	0061.4	036.5	46.01	
028.0	003.6414	0088.8	023.9	254.9	001.2000	0061.8	036.2	46.20	
029.0	003.6414	0088.8	023.9	254.5	001.2000	0062.3	035.9	46.38	
030.0	003.6414	0088.6	023.9	254.0	001.2000	0062.7	035.6	46.55	
031.0	003.5987	0088.3	023.8	253.4	001.2000	0063.1	035.4	46.69	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
032.0	003.5421	0088.2	023.7	252.7	001.2000	0063.5	035.2	46.82
033.0	003.4860	0088.2	023.6	252.1	001.2000	0063.7	035.0	46.93
034.0	003.4442	0088.3	023.5	251.6	001.2000	0063.8	034.8	47.03
035.0	003.4027	0088.5	023.5	251.0	001.2000	0063.9	034.6	47.13
036.0	003.3477	0088.8	023.5	250.4	001.2000	0064.0	034.4	47.22
037.0	003.2932	0089.1	023.4	249.7	001.2000	0064.2	034.2	47.32
038.0	003.2525	0089.5	023.4	249.1	001.2000	0064.4	034.0	47.43
039.0	003.2122	0089.8	023.4	248.5	001.2000	0064.6	033.8	47.54
040.0	003.1587	0090.2	023.3	247.9	001.2000	0065.1	033.6	47.66
041.0	003.0926	0090.7	023.3	247.2	001.2000	0065.6	033.5	47.79
042.0	003.0402	0091.4	023.3	246.6	001.2000	0065.9	033.3	47.90
043.0	002.9753	0092.0	023.2	245.9	001.2000	0066.2	033.2	47.99
044.0	002.9239	0092.5	023.2	245.3	001.2000	0066.4	033.1	48.06
045.0	002.8603	0092.8	023.1	244.5	001.2000	0066.6	033.0	48.11
046.0	002.8099	0093.0	023.0	243.8	001.2000	0066.8	033.0	48.18
047.0	002.7599	0093.3	023.0	243.1	001.2000	0067.1	032.9	48.23
048.0	002.6981	0093.5	022.9	242.4	001.2000	0067.2	032.9	48.26
049.0	002.6492	0093.5	022.8	241.7	001.2000	0067.3	032.9	48.26
050.0	002.5886	0093.6	022.7	241.0	001.2000	0067.3	032.9	48.24
051.0	002.6248	0093.8	022.8	240.3	001.2000	0067.2	032.8	48.30
052.0	002.6613	0094.1	022.9	239.7	001.2000	0067.0	032.6	48.35
053.0	002.6981	0094.4	023.0	239.0	001.2000	0066.8	032.4	48.40
054.0	002.7351	0094.8	023.1	238.3	001.2000	0066.7	032.3	48.46
055.0	002.7723	0095.7	023.3	237.6	001.2000	0066.7	032.1	48.55
056.0	002.8099	0096.8	023.5	236.9	001.2000	0066.9	031.9	48.68
057.0	002.8476	0098.2	023.7	236.1	001.2000	0067.4	031.6	48.83
058.0	002.8856	0099.5	024.0	235.4	001.2000	0068.0	031.4	49.01
059.0	002.9239	0100.7	024.2	234.6	001.2000	0068.7	031.3	49.18
060.0	002.9624	0101.8	024.4	233.8	001.2000	0069.4	031.1	49.34
061.0	003.0402	0102.6	024.6	232.9	001.2000	0070.1	030.9	49.51
062.0	003.1190	0103.2	024.8	232.1	001.2000	0070.7	030.8	49.67
063.0	003.1988	0103.8	025.0	231.2	001.2000	0071.4	030.7	49.80
064.0	003.2796	0104.3	025.2	230.3	001.2000	0072.2	030.6	49.95
065.0	003.3614	0104.7	025.4	229.4	001.2000	0073.3	030.5	50.11
066.0	003.4442	0105.1	025.6	228.5	001.2000	0074.6	030.5	50.29
067.0	003.5281	0105.5	025.8	227.6	001.2000	0075.9	030.4	50.46
068.0	003.6129	0105.8	025.9	226.7	001.2000	0076.6	030.4	50.55
069.0	003.6987	0106.1	026.1	225.8	001.2000	0076.7	030.4	50.54
070.0	003.7856	0106.3	026.3	224.9	001.2000	0076.5	030.5	50.50
071.0	003.9326	0106.5	026.5	223.9	001.2000	0076.6	030.5	50.52
072.0	004.0673	0106.6	026.7	223.0	001.2000	0077.1	030.5	50.56
073.0	004.2196	0106.8	027.0	222.0	001.2000	0077.9	030.5	50.64
074.0	004.3591	0106.9	027.2	221.0	001.2000	0078.6	030.6	50.68
075.0	004.5008	0107.0	027.4	220.1	001.2000	0079.0	030.7	50.67
076.0	004.6610	0107.1	027.6	219.1	001.2000	0079.0	030.8	50.62
077.0	004.8075	0107.2	027.8	218.2	001.2000	0079.0	030.9	50.56
078.0	004.9730	0107.3	028.0	217.2	001.2000	0079.3	031.1	50.51
079.0	005.1244	0107.4	028.2	216.3	001.2000	0079.6	031.3	50.45
080.0	005.2952	0107.4	028.4	215.4	001.2000	0080.0	031.5	50.40
081.0	005.5743	0107.4	028.8	214.3	001.2000	0080.4	031.6	50.39
082.0	005.8424	0107.4	029.1	213.3	001.2000	0081.0	031.8	50.38

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
083.0	006.1169	0107.4	029.4	212.3	001.2000	0081.7	031.9	50.36
084.0	006.4166	0107.4	029.7	211.3	001.2000	0082.4	032.2	50.34
085.0	006.7041	0107.3	030.0	210.3	001.2000	0083.1	032.4	50.29
086.0	007.0177	0107.0	030.3	209.4	001.2000	0083.8	032.7	50.24
087.0	007.3385	0106.6	030.5	208.5	001.2000	0084.6	033.0	50.18
088.0	007.6457	0106.3	030.8	207.6	001.2000	0085.3	033.3	50.11
089.0	007.9592	0106.0	031.0	206.8	001.2000	0086.2	033.7	50.03
090.0	008.3006	0105.6	031.3	206.0	001.2000	0087.0	034.1	49.95
091.0	008.5832	0105.2	031.5	205.4	001.2000	0087.8	034.5	49.84
092.0	008.8706	0104.8	031.7	204.7	001.2000	0088.6	034.9	49.73
093.0	009.1627	0104.6	031.9	204.0	001.2000	0089.3	035.3	49.61
094.0	009.4596	0104.5	032.1	203.4	001.2000	0089.9	035.8	49.46
095.0	009.7611	0104.3	032.3	202.8	001.2000	0090.2	036.2	49.28
096.0	010.0675	0104.0	032.5	202.2	001.2000	0090.2	036.7	49.07
097.0	010.3785	0103.6	032.7	201.7	001.2000	0090.0	037.2	48.83
098.0	010.6943	0103.3	032.9	201.2	001.2000	0089.7	037.7	48.58
099.0	011.0148	0103.2	033.1	200.7	001.2000	0089.5	038.3	48.34
100.0	011.3400	0103.3	033.4	200.2	001.2000	0089.2	038.8	48.09
101.0	011.5934	0103.7	033.6	199.7	001.2000	0089.1	039.3	47.85
102.0	011.8496	0104.3	033.9	199.2	001.2000	0089.1	039.9	47.62
103.0	012.1086	0104.7	034.1	198.8	001.2000	0089.1	040.4	47.39
104.0	012.3704	0104.9	034.3	198.5	001.2000	0089.2	041.0	47.16
105.0	012.6350	0104.9	034.5	198.2	001.2000	0089.3	041.6	46.93
106.0	012.9024	0105.0	034.7	197.9	001.2000	0089.3	042.2	46.69
107.0	013.1726	0105.2	034.8	197.6	001.2000	0089.3	042.8	46.46
108.0	013.4456	0105.5	035.0	197.4	001.2000	0089.4	043.4	46.22
109.0	013.7214	0105.7	035.2	197.1	001.2000	0089.4	044.0	45.99
110.0	014.0000	0105.9	035.4	196.9	001.2000	0089.5	044.7	45.75
111.0	014.0000	0106.0	035.4	196.9	001.2000	0089.5	045.3	45.52
112.0	014.0000	0106.2	035.5	197.0	001.2000	0089.5	045.9	45.28
113.0	014.0000	0106.4	035.5	197.0	001.2000	0089.5	046.5	45.05
114.0	014.0000	0106.5	035.5	197.1	001.2000	0089.5	047.1	44.82
115.0	014.0000	0106.7	035.6	197.1	001.2000	0089.4	047.8	44.59



02-02-2022

Terrain Data: GLOBE 30 Sec

FMOver Analysis

WAKJ BLED20060208AAO

WPSM.C

Channel = 217A

Max ERP = 1.2 kW

RCAMSL = 115.96 m

N. Lat. 30 41 05.60

W. Lng. 86 08 27.70

Protected

60 dBu

Channel = 216C3

Max ERP = 14 kW

RCAMSL = 107.7 m

N. Lat. 30 24 35.90

W. Lng. 86 37 23.60

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
177.0	001.2000	0079.5	017.2	074.0	004.3555	0106.9	049.0	51.09	
178.0	001.2000	0078.5	017.1	073.8	004.3257	0106.9	048.7	51.16	
179.0	001.2000	0078.3	017.0	073.6	004.3091	0106.9	048.4	51.25	
180.0	001.2000	0078.5	017.1	073.6	004.3003	0106.9	048.1	51.35	
181.0	001.2000	0078.8	017.1	073.5	004.2905	0106.8	047.8	51.45	
182.0	001.2000	0079.1	017.1	073.4	004.2811	0106.8	047.6	51.56	
183.0	001.2000	0079.9	017.2	073.4	004.2804	0106.8	047.2	51.68	
184.0	001.2000	0081.1	017.4	073.5	004.2868	0106.8	046.9	51.81	
185.0	001.2000	0082.7	017.6	073.6	004.2990	0106.9	046.5	51.96	
186.0	001.2000	0084.2	017.7	073.6	004.3078	0106.9	046.2	52.11	
187.0	001.2000	0085.6	017.9	073.7	004.3133	0106.9	045.8	52.25	
188.0	001.2000	0087.0	018.1	073.7	004.3180	0106.9	045.5	52.40	
189.0	001.2000	0089.0	018.3	073.8	004.3308	0106.9	045.1	52.56	
190.0	001.2000	0091.5	018.6	073.9	004.3510	0106.9	044.7	52.75	
191.0	001.2000	0093.3	018.8	074.0	004.3577	0106.9	044.3	52.91	
192.0	001.2000	0094.0	018.9	073.9	004.3433	0106.9	044.0	53.03	
193.0	001.2000	0093.8	018.8	073.7	004.3101	0106.9	043.7	53.10	
194.0	001.2000	0092.7	018.7	073.3	004.2615	0106.8	043.5	53.14	
195.0	001.2000	0091.2	018.5	072.9	004.2034	0106.8	043.3	53.16	
196.0	001.2000	0090.2	018.4	072.5	004.1484	0106.7	043.1	53.18	
197.0	001.2000	0089.5	018.3	072.2	004.0992	0106.6	042.9	53.22	
198.0	001.2000	0089.3	018.3	071.9	004.0590	0106.6	042.6	53.27	
199.0	001.2000	0089.1	018.3	071.7	004.0208	0106.6	042.4	53.33	
200.0	001.2000	0089.2	018.3	071.4	003.9864	0106.5	042.1	53.40	
201.0	001.2000	0089.6	018.4	071.2	003.9565	0106.5	041.8	53.48	
202.0	001.2000	0090.1	018.4	071.0	003.9260	0106.4	041.6	53.56	
203.0	001.2000	0090.1	018.4	070.7	003.8825	0106.4	041.3	53.61	
204.0	001.2000	0089.4	018.3	070.3	003.8254	0106.3	041.1	53.61	
205.0	001.2000	0088.3	018.2	069.8	003.7712	0106.2	041.0	53.61	
206.0	001.2000	0087.1	018.1	069.4	003.7320	0106.2	040.9	53.60	
207.0	001.2000	0086.0	017.9	068.9	003.6939	0106.0	040.7	53.60	
208.0	001.2000	0085.0	017.8	068.5	003.6562	0105.9	040.6	53.60	
209.0	001.2000	0084.1	017.7	068.1	003.6193	0105.8	040.5	53.60	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
210.0	001.2000	0083.3	017.6	067.6	003.5829	0105.7	040.4	53.59
211.0	001.2000	0082.6	017.5	067.2	003.5473	0105.5	040.3	53.59
212.0	001.2000	0081.9	017.5	066.8	003.5119	0105.4	040.2	53.58
213.0	001.2000	0081.2	017.4	066.4	003.4760	0105.2	040.1	53.57
214.0	001.2000	0080.6	017.3	066.0	003.4410	0105.1	040.0	53.56
215.0	001.2000	0080.1	017.2	065.5	003.4066	0104.9	039.8	53.55
216.0	001.2000	0079.7	017.2	065.1	003.3730	0104.8	039.7	53.54
217.0	001.2000	0079.3	017.2	064.7	003.3390	0104.6	039.6	53.53
218.0	001.2000	0079.0	017.1	064.3	003.3055	0104.4	039.5	53.52
219.0	001.2000	0079.0	017.1	063.9	003.2732	0104.3	039.4	53.51
220.0	001.2000	0079.0	017.1	063.5	003.2412	0104.1	039.3	53.51
221.0	001.2000	0078.6	017.1	063.1	003.2071	0103.9	039.2	53.48
222.0	001.2000	0077.9	017.0	062.7	003.1708	0103.6	039.2	53.42
223.0	001.2000	0077.1	016.9	062.2	003.1346	0103.4	039.2	53.36
224.0	001.2000	0076.6	016.8	061.8	003.0999	0103.1	039.1	53.30
225.0	001.2000	0076.5	016.8	061.3	003.0671	0102.8	039.1	53.27
226.0	001.2000	0076.7	016.8	060.9	003.0353	0102.5	039.0	53.24
227.0	001.2000	0076.5	016.8	060.5	003.0020	0102.2	038.9	53.19
228.0	001.2000	0075.4	016.7	060.0	002.9662	0101.8	039.0	53.07
229.0	001.2000	0073.9	016.5	059.6	002.9461	0101.3	039.1	52.95
230.0	001.2000	0072.6	016.3	059.1	002.9285	0100.8	039.2	52.83
231.0	001.2000	0071.5	016.2	058.7	002.9117	0100.3	039.3	52.73
232.0	001.2000	0070.8	016.1	058.3	002.8955	0099.8	039.4	52.64
233.0	001.2000	0070.0	016.0	057.8	002.8795	0099.3	039.4	52.54
234.0	001.2000	0069.2	015.9	057.4	002.8638	0098.7	039.5	52.43
235.0	001.2000	0068.3	015.8	057.0	002.8483	0098.2	039.6	52.32
236.0	001.2000	0067.5	015.7	056.6	002.8331	0097.7	039.7	52.21
237.0	001.2000	0066.9	015.6	056.2	002.8182	0097.1	039.8	52.11
238.0	001.2000	0066.7	015.6	055.8	002.8035	0096.6	039.8	52.03
239.0	001.2000	0066.8	015.6	055.4	002.7887	0096.1	039.8	51.97
240.0	001.2000	0067.1	015.6	055.0	002.7740	0095.7	039.8	51.91
241.0	001.2000	0067.3	015.7	054.6	002.7592	0095.3	039.8	51.86
242.0	001.2000	0067.3	015.7	054.3	002.7447	0095.0	039.8	51.79
243.0	001.2000	0067.1	015.6	053.9	002.7303	0094.7	039.9	51.72
244.0	001.2000	0066.8	015.6	053.5	002.7164	0094.6	039.9	51.65
245.0	001.2000	0066.4	015.6	053.1	002.7027	0094.4	040.0	51.57
246.0	001.2000	0066.1	015.5	052.8	002.6892	0094.3	040.1	51.50
247.0	001.2000	0065.7	015.5	052.4	002.6760	0094.2	040.2	51.42
248.0	001.2000	0065.0	015.4	052.1	002.6636	0094.1	040.4	51.33
249.0	001.2000	0064.4	015.3	051.7	002.6512	0094.0	040.5	51.24
250.0	001.2000	0064.1	015.3	051.4	002.6386	0093.9	040.7	51.16
251.0	001.2000	0063.9	015.3	051.0	002.6261	0093.8	040.8	51.09
252.0	001.2000	0063.8	015.3	050.7	002.6136	0093.7	040.9	51.02
253.0	001.2000	0063.4	015.2	050.4	002.6020	0093.6	041.0	50.93
254.0	001.2000	0062.7	015.1	050.1	002.5913	0093.6	041.2	50.84
255.0	001.2000	0061.7	015.0	049.8	002.6003	0093.5	041.4	50.76
256.0	001.2000	0060.6	014.9	049.6	002.6157	0093.5	041.6	50.70
257.0	001.2000	0059.9	014.8	049.3	002.6317	0093.5	041.8	50.65
258.0	001.2000	0059.7	014.8	049.0	002.6496	0093.5	042.0	50.62
259.0	001.2000	0059.9	014.8	048.7	002.6657	0093.5	042.0	50.60
260.0	001.2000	0060.7	014.9	048.3	002.6836	0093.5	042.1	50.61

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
261.0	001.2000	0061.3	015.0	047.9	002.7012	0093.5	042.2	50.60
262.0	001.2000	0061.2	015.0	047.7	002.7187	0093.5	042.3	50.57
263.0	001.2000	0061.4	015.0	047.4	002.7376	0093.4	042.5	50.54
264.0	001.2000	0061.4	015.0	047.1	002.7556	0093.4	042.6	50.50
265.0	001.2000	0061.9	015.0	046.7	002.7726	0093.3	042.7	50.47
266.0	001.2000	0062.3	015.1	046.4	002.7883	0093.2	042.9	50.44
267.0	001.2000	0063.1	015.2	046.1	002.8058	0093.1	043.0	50.42
268.0	001.2000	0063.8	015.2	045.8	002.8222	0093.0	043.1	50.39
269.0	001.2000	0064.2	015.3	045.4	002.8376	0092.9	043.2	50.34
270.0	001.2000	0064.6	015.3	045.1	002.8527	0092.8	043.4	50.30
271.0	001.2000	0065.0	015.4	044.9	002.8695	0092.7	043.5	50.26
272.0	001.2000	0065.0	015.4	044.6	002.8844	0092.7	043.7	50.19
273.0	001.2000	0063.9	015.3	044.5	002.8917	0092.6	044.0	50.09
274.0	001.2000	0063.1	015.2	044.4	002.9005	0092.6	044.3	50.00
275.0	001.2000	0062.4	015.1	044.2	002.9091	0092.6	044.5	49.91
276.0	001.2000	0061.8	015.0	044.1	002.9183	0092.5	044.8	49.83
277.0	001.2000	0061.8	015.0	043.9	002.9303	0092.4	045.0	49.76
278.0	001.2000	0061.9	015.0	043.7	002.9409	0092.4	045.2	49.69
279.0	001.2000	0062.1	015.1	043.5	002.9521	0092.3	045.4	49.62
280.0	001.2000	0062.4	015.1	043.2	002.9633	0092.2	045.6	49.55
281.0	001.2000	0062.8	015.1	043.0	002.9751	0092.1	045.8	49.49
282.0	001.2000	0063.0	015.2	042.8	002.9876	0091.9	046.0	49.41
283.0	001.2000	0063.1	015.2	042.6	002.9993	0091.8	046.2	49.34
284.0	001.2000	0063.3	015.2	042.4	003.0113	0091.7	046.4	49.26
285.0	001.2000	0062.8	015.1	042.4	003.0173	0091.6	046.7	49.17
286.0	001.2000	0062.0	015.0	042.3	003.0206	0091.6	047.0	49.07
287.0	001.2000	0061.0	014.9	042.3	003.0215	0091.6	047.3	48.96
288.0	001.2000	0059.7	014.8	042.3	003.0198	0091.6	047.6	48.85
289.0	001.2000	0058.6	014.7	042.3	003.0190	0091.6	047.9	48.75
290.0	001.2000	0057.8	014.6	042.3	003.0194	0091.6	048.1	48.65
291.0	001.2000	0057.1	014.5	042.3	003.0203	0091.6	048.4	48.55
292.0	001.2000	0056.4	014.4	042.3	003.0219	0091.6	048.7	48.45
293.0	001.2000	0055.7	014.3	042.3	003.0217	0091.6	048.9	48.36
294.0	001.2000	0054.6	014.2	042.3	003.0177	0091.6	049.2	48.25
295.0	001.2000	0053.3	014.0	042.5	003.0109	0091.7	049.5	48.14
296.0	001.2000	0052.1	013.8	042.5	003.0050	0091.8	049.8	48.04

## E-4 WPSM(FM) 216C3.CP Mod. FMOver Tabulation to WAKJ(FM) 217A

WPSM.C

WAKJ BLED20060208AAO

Channel = 216C3  
 Max ERP = 14 kW  
 RCAMSL = 107.7 m  
 N. Lat. 30 24 35.90  
 W. Lng. 86 37 23.60  
 Protected  
 60 dBu

Channel = 217A  
 Max ERP = 1.2 kW  
 RCAMSL = 115.96 m  
 N. Lat. 30 41 05.60  
 W. Lng. 86 08 27.70  
 Interfering  
 Terrain Data: FCC 30 meter 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
356.0	001.7347	0077.6	018.7	256.0	001.2000	0062.0	048.9	41.60	
357.0	001.8043	0077.9	018.9	256.2	001.2000	0061.6	048.5	41.68	
358.0	001.8754	0078.0	019.1	256.4	001.2000	0061.4	048.2	41.77	
359.0	001.9478	0077.6	019.3	256.4	001.2000	0061.3	047.8	41.88	
000.0	002.0216	0077.5	019.4	256.6	001.2000	0061.2	047.5	41.98	
001.0	002.1185	0078.0	019.7	256.8	001.2000	0061.1	047.1	42.10	
002.0	002.2288	0078.6	020.1	257.1	001.2000	0061.0	046.6	42.23	
003.0	002.3305	0078.8	020.3	257.3	001.2000	0060.9	046.2	42.35	
004.0	002.4461	0080.1	020.7	257.6	001.2000	0060.7	045.8	42.48	
005.0	002.5646	0080.8	021.0	257.9	001.2000	0060.8	045.3	42.64	
006.0	002.6736	0081.0	021.3	258.0	001.2000	0060.8	044.9	42.79	
007.0	002.7973	0081.9	021.6	258.3	001.2000	0060.8	044.4	42.95	
008.0	002.9111	0084.6	022.2	258.8	001.2000	0060.6	043.9	43.11	
009.0	003.0272	0085.8	022.5	259.1	001.2000	0060.6	043.4	43.28	
010.0	003.1587	0084.4	022.6	259.0	001.2000	0060.6	043.0	43.42	
011.0	003.2122	0084.8	022.7	258.9	001.2000	0060.6	042.6	43.57	
012.0	003.2525	0084.0	022.7	258.7	001.2000	0060.6	042.2	43.70	
013.0	003.2932	0083.8	022.7	258.5	001.2000	0060.8	041.9	43.86	
014.0	003.3477	0084.4	022.9	258.5	001.2000	0060.8	041.4	44.02	
015.0	003.4027	0085.0	023.0	258.4	001.2000	0060.8	041.0	44.18	
016.0	003.4442	0085.6	023.2	258.3	001.2000	0060.8	040.6	44.34	
017.0	003.4860	0086.0	023.3	258.2	001.2000	0060.8	040.2	44.50	
018.0	003.5421	0086.1	023.4	258.0	001.2000	0060.8	039.8	44.65	
019.0	003.5987	0086.5	023.5	257.9	001.2000	0060.8	039.3	44.81	
020.0	003.6414	0087.4	023.7	257.8	001.2000	0060.8	038.9	44.98	
021.0	003.6414	0088.7	023.9	257.7	001.2000	0060.7	038.5	45.15	
022.0	003.6414	0090.3	024.1	257.6	001.2000	0060.7	038.0	45.33	
023.0	003.6414	0091.4	024.2	257.4	001.2000	0060.8	037.6	45.51	
024.0	003.6414	0093.1	024.5	257.3	001.2000	0060.9	037.1	45.71	
025.0	003.6414	0093.5	024.5	256.9	001.2000	0061.0	036.7	45.88	
026.0	003.6414	0092.6	024.4	256.4	001.2000	0061.4	036.5	46.03	
027.0	003.6414	0090.3	024.1	255.6	001.2000	0062.0	036.3	46.16	
028.0	003.6414	0088.8	023.9	254.9	001.2000	0062.9	036.2	46.33	
029.0	003.6414	0088.4	023.9	254.4	001.2000	0064.7	035.9	46.66	
030.0	003.6414	0089.0	023.9	254.0	001.2000	0064.2	035.6	46.74	
031.0	003.5987	0089.7	024.0	253.5	001.2000	0063.4	035.3	46.78	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
032.0	003.5421	0089.7	023.9	253.0	001.2000	0063.6	035.0	46.89
033.0	003.4860	0090.1	023.8	252.4	001.2000	0064.9	034.8	47.15
034.0	003.4442	0090.6	023.8	251.9	001.2000	0066.0	034.5	47.39
035.0	003.4027	0090.7	023.8	251.2	001.2000	0066.6	034.3	47.54
036.0	003.3477	0091.3	023.8	250.7	001.2000	0067.2	034.1	47.72
037.0	003.2932	0091.9	023.8	250.1	001.2000	0068.5	033.9	47.97
038.0	003.2525	0091.9	023.7	249.4	001.2000	0069.7	033.7	48.19
039.0	003.2122	0092.4	023.7	248.8	001.2000	0069.8	033.5	48.29
040.0	003.1587	0092.9	023.7	248.1	001.2000	0070.0	033.4	48.38
041.0	003.0926	0093.6	023.6	247.5	001.2000	0070.9	033.2	48.56
042.0	003.0402	0094.9	023.7	246.9	001.2000	0071.5	033.0	48.73
043.0	002.9753	0095.0	023.6	246.2	001.2000	0073.0	032.9	48.94
044.0	002.9239	0095.0	023.5	245.4	001.2000	0072.2	032.8	48.89
045.0	002.8603	0094.8	023.3	244.7	001.2000	0071.1	032.8	48.76
046.0	002.8099	0095.3	023.3	244.0	001.2000	0070.7	032.7	48.76
047.0	002.7599	0095.0	023.2	243.2	001.2000	0070.7	032.7	48.76
048.0	002.6981	0094.8	023.0	242.5	001.2000	0069.7	032.7	48.62
049.0	002.6492	0095.0	023.0	241.8	001.2000	0068.9	032.7	48.53
050.0	002.5886	0095.4	022.9	241.1	001.2000	0068.6	032.7	48.50
051.0	002.6248	0095.3	023.0	240.4	001.2000	0069.0	032.6	48.61
052.0	002.6613	0096.5	023.2	239.7	001.2000	0069.4	032.3	48.77
053.0	002.6981	0097.5	023.4	239.1	001.2000	0069.1	032.1	48.84
054.0	002.7351	0099.1	023.6	238.4	001.2000	0069.4	031.8	49.02
055.0	002.7723	0100.4	023.8	237.7	001.2000	0069.1	031.5	49.09
056.0	002.8099	0101.5	024.0	236.9	001.2000	0069.3	031.3	49.22
057.0	002.8476	0103.2	024.3	236.1	001.2000	0070.4	031.1	49.48
058.0	002.8856	0103.8	024.4	235.3	001.2000	0071.9	030.9	49.73
059.0	002.9239	0104.1	024.5	234.5	001.2000	0072.9	030.9	49.88
060.0	002.9624	0104.7	024.7	233.7	001.2000	0073.8	030.8	50.03
061.0	003.0402	0105.1	024.9	232.9	001.2000	0074.2	030.6	50.14
062.0	003.1190	0105.5	025.1	232.0	001.2000	0075.6	030.5	50.36
063.0	003.1988	0105.9	025.2	231.1	001.2000	0078.1	030.4	50.71
064.0	003.2796	0106.4	025.4	230.2	001.2000	0078.3	030.3	50.79
065.0	003.3614	0106.9	025.6	229.3	001.2000	0078.7	030.3	50.87
066.0	003.4442	0107.3	025.8	228.4	001.2000	0078.0	030.2	50.81
067.0	003.5281	0107.4	026.0	227.5	001.2000	0078.5	030.2	50.86
068.0	003.6129	0107.5	026.1	226.6	001.2000	0079.1	030.2	50.93
069.0	003.6987	0107.7	026.3	225.7	001.2000	0079.5	030.3	50.95
070.0	003.7856	0107.7	026.4	224.8	001.2000	0079.3	030.3	50.90
071.0	003.9326	0107.7	026.6	223.8	001.2000	0080.5	030.4	51.03
072.0	004.0673	0107.7	026.8	222.9	001.2000	0081.2	030.4	51.08
073.0	004.2196	0107.6	027.1	221.9	001.2000	0079.3	030.4	50.85
074.0	004.3591	0107.6	027.3	220.9	001.2000	0079.6	030.5	50.83
075.0	004.5008	0107.6	027.4	220.0	001.2000	0080.5	030.6	50.87
076.0	004.6610	0107.6	027.7	219.0	001.2000	0080.9	030.8	50.86
077.0	004.8075	0107.6	027.9	218.1	001.2000	0081.3	030.9	50.83
078.0	004.9730	0107.6	028.1	217.2	001.2000	0082.7	031.1	50.90
079.0	005.1244	0107.6	028.3	216.3	001.2000	0083.9	031.2	50.94
080.0	005.2952	0107.6	028.5	215.3	001.2000	0083.7	031.4	50.82
081.0	005.5743	0107.6	028.8	214.3	001.2000	0084.0	031.6	50.79
082.0	005.8424	0107.6	029.1	213.2	001.2000	0085.3	031.7	50.85

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
083.0	006.1169	0107.6	029.4	212.2	001.2000	0084.8	031.9	50.70
084.0	006.4166	0107.6	029.7	211.2	001.2000	0086.0	032.1	50.73
085.0	006.7041	0107.6	030.0	210.2	001.2000	0086.4	032.4	50.66
086.0	007.0177	0107.6	030.4	209.2	001.2000	0087.5	032.6	50.65
087.0	007.3385	0107.5	030.7	208.3	001.2000	0087.7	032.9	50.54
088.0	007.6457	0107.4	030.9	207.4	001.2000	0088.6	033.3	50.48
089.0	007.9592	0107.2	031.2	206.6	001.2000	0088.5	033.6	50.31
090.0	008.3006	0107.0	031.5	205.7	001.2000	0089.8	034.0	50.28
091.0	008.5832	0106.8	031.7	205.0	001.2000	0090.1	034.4	50.12
092.0	008.8706	0106.4	031.9	204.3	001.2000	0089.1	034.8	49.82
093.0	009.1627	0106.4	032.2	203.6	001.2000	0089.4	035.2	49.65
094.0	009.4596	0106.0	032.4	203.0	001.2000	0089.6	035.7	49.47
095.0	009.7611	0105.8	032.6	202.4	001.2000	0088.6	036.2	49.16
096.0	010.0675	0105.7	032.8	201.8	001.2000	0088.3	036.7	48.92
097.0	010.3785	0105.4	033.0	201.3	001.2000	0088.9	037.2	48.76
098.0	010.6943	0104.7	033.1	200.9	001.2000	0089.3	037.7	48.57
099.0	011.0148	0105.0	033.4	200.3	001.2000	0090.0	038.2	48.41
100.0	011.3400	0106.9	033.9	199.4	001.2000	0090.4	038.7	48.24
101.0	011.5934	0107.4	034.2	198.9	001.2000	0090.4	039.2	48.01
102.0	011.8496	0107.2	034.3	198.6	001.2000	0090.5	039.8	47.78
103.0	012.1086	0107.1	034.5	198.3	001.2000	0090.5	040.4	47.53
104.0	012.3704	0106.9	034.6	198.0	001.2000	0090.9	041.0	47.33
105.0	012.6350	0106.9	034.8	197.8	001.2000	0091.4	041.6	47.14
106.0	012.9024	0107.0	035.0	197.5	001.2000	0091.8	042.2	46.93
107.0	013.1726	0107.1	035.1	197.2	001.2000	0092.1	042.8	46.71
108.0	013.4456	0107.2	035.3	197.0	001.2000	0092.5	043.4	46.50
109.0	013.7214	0107.2	035.5	196.8	001.2000	0093.0	044.0	46.30
110.0	014.0000	0107.3	035.6	196.7	001.2000	0093.5	044.7	46.09
111.0	014.0000	0107.3	035.6	196.7	001.2000	0093.3	045.3	45.84
112.0	014.0000	0107.4	035.7	196.8	001.2000	0093.2	045.9	45.59
113.0	014.0000	0107.4	035.6	196.8	001.2000	0092.9	046.5	45.34
114.0	014.0000	0107.4	035.7	196.9	001.2000	0092.7	047.1	45.09
115.0	014.0000	0107.5	035.7	197.0	001.2000	0092.5	047.8	44.85

02-02-2022

Terrain Data: FCC 30 meter

FMOver Analysis

WAKJ BLED20060208AAO

WPSM.C

Channel = 217A

Max ERP = 1.2 kW

RCAMSL = 115.96 m

N. Lat. 30 41 05.60

W. Lng. 86 08 27.70

Protected

60 dBu

Channel = 216C3

Max ERP = 14 kW

RCAMSL = 107.7 m

N. Lat. 30 24 35.90

W. Lng. 86 37 23.60

Interfering

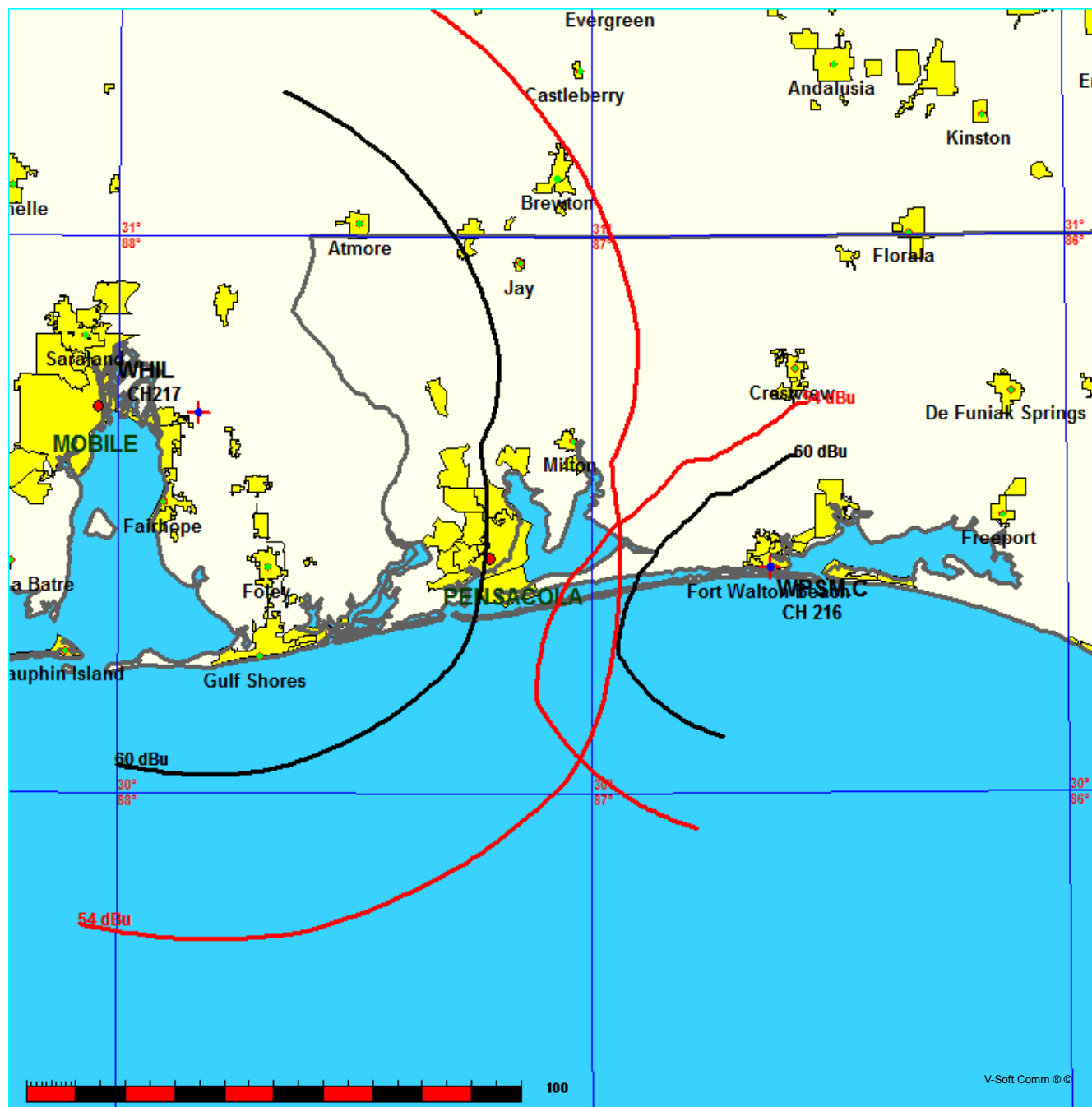
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
177.0	001.2000	0083.2	017.6	074.5	004.4282	0107.6	048.9	51.25	
178.0	001.2000	0084.7	017.8	074.6	004.4453	0107.6	048.5	51.40	
179.0	001.2000	0083.3	017.6	074.3	004.4065	0107.6	048.3	51.46	
180.0	001.2000	0081.9	017.5	074.0	004.3652	0107.6	048.0	51.52	
181.0	001.2000	0079.7	017.2	073.6	004.3083	0107.7	047.8	51.54	
182.0	001.2000	0079.1	017.1	073.4	004.2808	0107.7	047.6	51.61	
183.0	001.2000	0080.2	017.3	073.5	004.2861	0107.7	047.2	51.75	
184.0	001.2000	0081.4	017.4	073.5	004.2931	0107.7	046.9	51.88	
185.0	001.2000	0082.1	017.5	073.5	004.2866	0107.7	046.6	52.00	
186.0	001.2000	0083.7	017.7	073.6	004.2981	0107.7	046.2	52.15	
187.0	001.2000	0085.7	017.9	073.7	004.3149	0107.7	045.8	52.31	
188.0	001.2000	0086.6	018.0	073.7	004.3104	0107.7	045.5	52.44	
189.0	001.2000	0087.2	018.1	073.6	004.2983	0107.7	045.2	52.55	
190.0	001.2000	0088.8	018.3	073.6	004.3020	0107.7	044.8	52.70	
191.0	001.2000	0090.7	018.5	073.7	004.3121	0107.7	044.4	52.87	
192.0	001.2000	0094.1	018.9	073.9	004.3446	0107.6	044.0	53.08	
193.0	001.2000	0096.9	019.2	074.0	004.3644	0107.6	043.6	53.28	
194.0	001.2000	0097.4	019.2	073.9	004.3437	0107.6	043.2	53.39	
195.0	001.2000	0096.2	019.1	073.5	004.2907	0107.7	043.0	53.43	
196.0	001.2000	0094.5	018.9	073.1	004.2287	0107.6	042.8	53.44	
197.0	001.2000	0092.6	018.7	072.6	004.1570	0107.7	042.7	53.43	
198.0	001.2000	0091.0	018.5	072.1	004.0896	0107.7	042.5	53.43	
199.0	001.2000	0090.4	018.5	071.8	004.0431	0107.7	042.3	53.47	
200.0	001.2000	0090.5	018.5	071.6	004.0084	0107.7	042.0	53.55	
201.0	001.2000	0089.3	018.3	071.1	003.9524	0107.7	041.9	53.56	
202.0	001.2000	0088.3	018.2	070.7	003.8946	0107.7	041.7	53.56	
203.0	001.2000	0089.6	018.4	070.6	003.8742	0107.7	041.3	53.68	
204.0	001.2000	0089.2	018.3	070.3	003.8222	0107.7	041.1	53.71	
205.0	001.2000	0090.1	018.4	070.0	003.7923	0107.7	040.8	53.80	
206.0	001.2000	0089.3	018.3	069.6	003.7540	0107.7	040.7	53.83	
207.0	001.2000	0088.6	018.2	069.2	003.7188	0107.7	040.5	53.85	
208.0	001.2000	0087.9	018.2	068.8	003.6827	0107.7	040.4	53.87	
209.0	001.2000	0087.7	018.1	068.5	003.6519	0107.6	040.2	53.92	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
210.0	001.2000	0086.5	018.0	068.0	003.6108	0107.5	040.1	53.90
211.0	001.2000	0086.1	018.0	067.6	003.5768	0107.4	039.9	53.91
212.0	001.2000	0084.7	017.8	067.1	003.5349	0107.4	039.9	53.89
213.0	001.2000	0085.1	017.8	066.8	003.5073	0107.4	039.7	53.94
214.0	001.2000	0084.5	017.8	066.3	003.4708	0107.3	039.6	53.94
215.0	001.2000	0083.9	017.7	065.9	003.4348	0107.3	039.5	53.94
216.0	001.2000	0084.1	017.7	065.5	003.4036	0107.3	039.3	53.97
217.0	001.2000	0083.1	017.6	065.0	003.3641	0106.9	039.2	53.92
218.0	001.2000	0081.4	017.4	064.5	003.3209	0106.6	039.3	53.82
219.0	001.2000	0080.9	017.3	064.1	003.2849	0106.5	039.2	53.79
220.0	001.2000	0080.5	017.3	063.6	003.2498	0106.3	039.1	53.77
221.0	001.2000	0079.5	017.2	063.2	003.2116	0106.0	039.1	53.70
222.0	001.2000	0079.5	017.2	062.8	003.1792	0105.7	039.0	53.69
223.0	001.2000	0081.5	017.4	062.5	003.1556	0105.6	038.7	53.78
224.0	001.2000	0080.4	017.3	062.0	003.1165	0105.5	038.7	53.70
225.0	001.2000	0079.2	017.1	061.5	003.0782	0105.5	038.7	53.63
226.0	001.2000	0079.3	017.1	061.1	003.0451	0105.1	038.6	53.60
227.0	001.2000	0078.8	017.1	060.6	003.0099	0104.9	038.6	53.54
228.0	001.2000	0078.2	017.0	060.2	002.9744	0104.7	038.6	53.47
229.0	001.2000	0078.2	017.0	059.7	002.9517	0104.5	038.6	53.44
230.0	001.2000	0078.7	017.1	059.3	002.9356	0104.2	038.5	53.45
231.0	001.2000	0078.3	017.0	058.9	002.9184	0104.1	038.5	53.42
232.0	001.2000	0075.6	016.7	058.4	002.8993	0104.1	038.8	53.26
233.0	001.2000	0074.2	016.5	057.9	002.8821	0103.8	038.9	53.14
234.0	001.2000	0073.3	016.4	057.5	002.8656	0103.5	039.0	53.05
235.0	001.2000	0072.5	016.3	057.0	002.8494	0103.2	039.1	52.97
236.0	001.2000	0070.6	016.1	056.6	002.8334	0102.6	039.3	52.80
237.0	001.2000	0069.2	015.9	056.2	002.8181	0101.8	039.5	52.64
238.0	001.2000	0069.2	015.9	055.8	002.8029	0101.3	039.5	52.56
239.0	001.2000	0069.1	015.9	055.4	002.7879	0100.8	039.5	52.49
240.0	001.2000	0069.7	016.0	055.0	002.7725	0100.4	039.5	52.46
241.0	001.2000	0068.6	015.8	054.6	002.7583	0099.7	039.6	52.31
242.0	001.2000	0068.9	015.9	054.2	002.7433	0099.3	039.6	52.24
243.0	001.2000	0070.7	016.1	053.8	002.7267	0098.9	039.4	52.26
244.0	001.2000	0070.7	016.1	053.4	002.7118	0098.4	039.5	52.17
245.0	001.2000	0071.5	016.2	052.9	002.6959	0097.4	039.4	52.09
246.0	001.2000	0073.1	016.4	052.5	002.6788	0096.9	039.3	52.07
247.0	001.2000	0071.3	016.2	052.2	002.6670	0096.6	039.6	51.90
248.0	001.2000	0070.1	016.0	051.8	002.6547	0096.2	039.8	51.75
249.0	001.2000	0070.1	016.0	051.4	002.6407	0095.6	039.9	51.64
250.0	001.2000	0068.6	015.8	051.1	002.6299	0095.4	040.1	51.49
251.0	001.2000	0066.7	015.6	050.9	002.6203	0095.3	040.4	51.34
252.0	001.2000	0065.8	015.5	050.6	002.6095	0095.3	040.7	51.24
253.0	001.2000	0063.5	015.2	050.4	002.6016	0095.4	041.0	51.10
254.0	001.2000	0064.2	015.3	050.0	002.5900	0095.4	041.0	51.07
255.0	001.2000	0062.7	015.1	049.7	002.6043	0095.7	041.3	51.00
256.0	001.2000	0062.0	015.0	049.5	002.6213	0095.6	041.5	50.95
257.0	001.2000	0061.0	014.9	049.2	002.6366	0095.2	041.7	50.85
258.0	001.2000	0060.8	014.9	048.9	002.6539	0094.9	041.8	50.79
259.0	001.2000	0060.6	014.9	048.6	002.6680	0094.8	042.0	50.75
260.0	001.2000	0060.4	014.9	048.3	002.6824	0094.9	042.1	50.72



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
261.0	001.2000	0061.1	014.9	048.0	002.7001	0094.8	042.2	50.70
262.0	001.2000	0061.5	015.0	047.6	002.7203	0095.1	042.3	50.72
263.0	001.2000	0062.1	015.1	047.3	002.7417	0095.0	042.4	50.71
264.0	001.2000	0063.2	015.2	046.9	002.7644	0095.1	042.5	50.73
265.0	001.2000	0062.2	015.1	046.7	002.7737	0095.1	042.7	50.64
266.0	001.2000	0062.6	015.1	046.4	002.7898	0095.1	042.8	50.62
267.0	001.2000	0063.5	015.2	046.0	002.8075	0095.3	042.9	50.63
268.0	001.2000	0064.4	015.3	045.7	002.8257	0095.3	043.0	50.62
269.0	001.2000	0065.3	015.4	045.3	002.8433	0095.1	043.1	50.58
270.0	001.2000	0065.9	015.5	045.0	002.8599	0094.8	043.3	50.53
271.0	001.2000	0067.3	015.7	044.6	002.8854	0094.8	043.4	50.54
272.0	001.2000	0069.0	015.9	044.1	002.9145	0095.1	043.4	50.58
273.0	001.2000	0068.4	015.8	044.0	002.9246	0095.0	043.7	50.49
274.0	001.2000	0068.7	015.8	043.7	002.9390	0094.8	043.9	50.42
275.0	001.2000	0067.0	015.6	043.7	002.9399	0094.8	044.2	50.29
276.0	001.2000	0063.5	015.2	043.9	002.9300	0094.9	044.7	50.10
277.0	001.2000	0061.4	015.0	043.9	002.9278	0095.0	045.0	49.96
278.0	001.2000	0060.9	014.9	043.8	002.9350	0094.9	045.3	49.87
279.0	001.2000	0061.5	015.0	043.5	002.9485	0094.8	045.4	49.81
280.0	001.2000	0063.2	015.2	043.1	002.9686	0094.9	045.5	49.81
281.0	001.2000	0064.3	015.3	042.8	002.9871	0095.2	045.7	49.81
282.0	001.2000	0065.7	015.5	042.5	003.0097	0094.8	045.8	49.75
283.0	001.2000	0066.9	015.6	042.1	003.0308	0094.7	046.0	49.71
284.0	001.2000	0066.8	015.6	042.0	003.0403	0094.9	046.3	49.64
285.0	001.2000	0068.0	015.7	041.7	003.0566	0095.2	046.4	49.63
286.0	001.2000	0066.6	015.6	041.7	003.0549	0095.2	046.7	49.51
287.0	001.2000	0064.5	015.3	041.8	003.0483	0095.1	047.1	49.36
288.0	001.2000	0064.0	015.3	041.8	003.0517	0095.2	047.4	49.27
289.0	001.2000	0062.8	015.1	041.8	003.0507	0095.2	047.7	49.16
290.0	001.2000	0063.2	015.2	041.6	003.0593	0095.2	047.9	49.08
291.0	001.2000	0063.6	015.2	041.5	003.0681	0094.7	048.1	48.97
292.0	001.2000	0062.2	015.1	041.5	003.0644	0094.9	048.4	48.87
293.0	001.2000	0060.4	014.9	041.7	003.0581	0095.2	048.7	48.77
294.0	001.2000	0059.1	014.7	041.7	003.0542	0095.2	049.0	48.66
295.0	001.2000	0056.8	014.4	041.9	003.0429	0094.9	049.4	48.50
296.0	001.2000	0055.2	014.2	042.1	003.0343	0094.7	049.7	48.36



# E-6 WPSM(FM).CP Mod. FMOVer Tabulation to WHIL(FM) 217C

WPSM.C

WHIL BLED19950728KE

Channel = 216C3  
 Max ERP = 14 kW  
 RCAMSL = 107.7 m  
 N. Lat. 30 24 35.90  
 W. Lng. 86 37 23.60  
 Protected  
 60 dBu

Channel = 217C  
 Max ERP = 100 kW  
 RCAMSL = 356 m  
 N. Lat. 30 41 20.70  
 W. Lng. 87 49 49.00  
 Interfering  
 54 dBu

Terrain Data: GLOBE 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
225.0	014.0000	0107.7	035.7	121.6	059.4626	0299.8	106.6	51.28	
226.0	014.0000	0107.7	035.7	121.6	059.2359	0299.8	106.0	51.44	
227.0	014.0000	0107.7	035.7	121.5	058.9901	0299.7	105.4	51.60	
228.0	014.0000	0107.7	035.7	121.4	058.7252	0299.7	104.8	51.76	
229.0	014.0000	0107.7	035.7	121.3	058.4403	0299.7	104.2	51.92	
230.0	014.0000	0107.7	035.7	121.2	058.1359	0299.7	103.6	52.08	
231.0	014.0000	0107.7	035.7	121.1	057.8119	0299.7	103.0	52.24	
232.0	014.0000	0107.6	035.7	121.0	057.4677	0299.7	102.4	52.40	
233.0	014.0000	0107.6	035.7	120.8	057.1035	0299.7	101.9	52.55	
234.0	014.0000	0107.6	035.7	120.7	056.7198	0299.7	101.3	52.70	
235.0	014.0000	0107.6	035.7	120.5	056.3156	0299.7	100.7	52.85	
236.0	014.0000	0107.6	035.7	120.4	055.8918	0299.7	100.1	52.99	
237.0	014.0000	0107.5	035.7	120.2	055.4477	0299.7	099.6	53.13	
238.0	014.0000	0107.5	035.7	120.1	054.9837	0299.8	099.0	53.27	
239.0	014.0000	0107.4	035.7	119.9	054.5546	0299.8	098.5	53.41	
240.0	014.0000	0107.4	035.7	119.7	054.1568	0299.8	097.9	53.55	
241.0	013.4456	0107.3	035.3	119.4	053.3906	0299.7	097.6	53.60	
242.0	012.9024	0107.3	035.0	119.0	052.6119	0299.7	097.2	53.64	
243.0	012.3704	0107.2	034.7	118.7	051.8211	0299.7	096.9	53.68	
244.0	011.8496	0107.1	034.3	118.3	051.0190	0299.6	096.6	53.70	
245.0	011.3400	0107.0	033.9	117.9	050.2065	0299.6	096.3	53.71	
246.0	010.8416	0106.9	033.6	117.5	049.3842	0299.5	096.1	53.72	
247.0	010.3544	0106.8	033.2	117.1	048.5528	0299.5	095.9	53.71	
248.0	009.8784	0106.6	032.8	116.7	047.7139	0299.5	095.7	53.69	
249.0	009.4136	0106.4	032.4	116.3	046.8697	0299.5	095.5	53.66	
250.0	008.9600	0106.2	032.0	115.9	046.0233	0299.5	095.4	53.62	
251.0	008.6052	0106.0	031.6	115.5	045.2516	0299.5	095.2	53.60	
252.0	008.2575	0105.7	031.3	115.1	044.4852	0299.6	095.1	53.57	
253.0	007.9171	0105.4	030.9	114.7	043.7237	0299.6	095.0	53.53	
254.0	007.5837	0105.2	030.6	114.4	042.9694	0299.7	094.9	53.49	
255.0	007.2576	0104.9	030.2	114.0	042.2201	0299.8	094.8	53.44	
256.0	006.9386	0104.4	029.8	113.6	041.4707	0299.9	094.8	53.38	
257.0	006.6268	0103.9	029.5	113.2	040.7214	0300.1	094.8	53.31	
258.0	006.3222	0103.2	029.1	112.8	039.9715	0300.2	094.8	53.22	
259.0	006.0247	0102.5	028.6	112.4	039.2320	0300.5	094.8	53.13	
260.0	005.7344	0102.0	028.3	112.0	038.5251	0300.7	094.9	53.05	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
261.0	005.5038	0101.7	028.0	111.7	037.8850	0300.9	094.9	52.99
262.0	005.2779	0101.8	027.7	111.4	037.2792	0301.1	094.8	52.93
263.0	005.0568	0102.0	027.5	111.0	036.6865	0301.3	094.8	52.88
264.0	004.8404	0102.2	027.2	110.7	036.0987	0301.5	094.8	52.82
265.0	004.6287	0102.1	027.0	110.4	035.5069	0301.8	094.8	52.74
266.0	004.4218	0101.8	026.7	110.1	034.9100	0302.1	094.9	52.65
267.0	004.2196	0101.3	026.3	109.7	034.4116	0302.4	095.1	52.56
268.0	004.0221	0100.1	025.9	109.4	033.9175	0302.8	095.3	52.44
269.0	003.8294	0098.5	025.4	109.0	033.4254	0303.1	095.5	52.30
270.0	003.6414	0097.0	024.9	108.7	032.9493	0303.5	095.8	52.16
271.0	003.5000	0095.4	024.5	108.3	032.5061	0303.8	096.1	52.03
272.0	003.3614	0094.7	024.2	108.0	032.1009	0304.0	096.3	51.93
273.0	003.2256	0094.4	023.9	107.8	031.7170	0304.3	096.4	51.85
274.0	003.0926	0094.3	023.7	107.5	031.3456	0304.6	096.5	51.76
275.0	002.9624	0094.3	023.5	107.2	030.9855	0304.8	096.7	51.68
276.0	002.8350	0094.7	023.3	107.0	030.6389	0305.1	096.8	51.61
277.0	002.7104	0095.3	023.1	106.7	030.3017	0305.3	096.8	51.54
278.0	002.5886	0096.0	023.0	106.5	029.9716	0305.5	096.9	51.47
279.0	002.4696	0096.5	022.8	106.2	029.6447	0305.8	097.1	51.39
280.0	002.3534	0096.8	022.6	106.0	029.3227	0306.0	097.2	51.30
281.0	002.2625	0097.1	022.4	105.7	029.0111	0306.1	097.4	51.22
282.0	002.1733	0097.3	022.2	105.5	028.7053	0306.3	097.5	51.13
283.0	002.0859	0097.4	022.0	105.2	028.4062	0306.4	097.7	51.03
284.0	002.0004	0097.3	021.8	105.0	028.1146	0306.5	097.9	50.92
285.0	001.9166	0097.1	021.5	104.8	027.8311	0306.6	098.1	50.81
286.0	001.8346	0096.7	021.3	104.6	027.5569	0306.7	098.4	50.68
287.0	001.7544	0096.2	021.0	104.4	027.2927	0306.8	098.7	50.55
288.0	001.6760	0095.8	020.7	104.2	027.0387	0306.9	099.0	50.42
289.0	001.5994	0095.3	020.4	104.0	026.7948	0307.0	099.3	50.29
290.0	001.5246	0094.8	020.1	103.8	026.5615	0307.0	099.6	50.15
291.0	001.4970	0094.2	020.0	103.6	026.3271	0307.1	099.8	50.05
292.0	001.4697	0093.5	019.8	103.4	026.0998	0307.1	100.0	49.95
293.0	001.4426	0093.0	019.6	103.2	025.8769	0307.1	100.2	49.85
294.0	001.4157	0092.7	019.5	103.0	025.6577	0307.1	100.4	49.75
295.0	001.3891	0092.5	019.4	102.9	025.4424	0307.2	100.6	49.66
296.0	001.3628	0092.2	019.3	102.7	025.2341	0307.2	100.8	49.57
297.0	001.3367	0091.7	019.1	102.5	025.0354	0307.3	101.0	49.46
298.0	001.3109	0091.0	018.9	102.4	024.8466	0307.4	101.3	49.35
299.0	001.2853	0090.2	018.8	102.2	024.6654	0307.4	101.5	49.24
300.0	001.2600	0089.6	018.6	102.1	024.4878	0307.5	101.8	49.13
301.0	001.2516	0089.3	018.5	101.9	024.2968	0307.6	101.9	49.05
302.0	001.2433	0089.1	018.5	101.7	024.1062	0307.7	102.1	48.97
303.0	001.2349	0088.9	018.4	101.6	023.9208	0307.9	102.3	48.89
304.0	001.2266	0088.5	018.3	101.4	023.7431	0308.0	102.5	48.80
305.0	001.2183	0088.2	018.3	101.3	023.5667	0308.1	102.6	48.72
306.0	001.2101	0088.1	018.2	101.1	023.3904	0308.3	102.8	48.63
307.0	001.2019	0087.9	018.2	101.0	023.2185	0308.4	103.0	48.55
308.0	001.1937	0087.6	018.1	100.8	023.0541	0308.6	103.2	48.46
309.0	001.1855	0087.4	018.0	100.7	022.8919	0308.7	103.4	48.38
310.0	001.1774	0087.4	018.0	100.6	022.7260	0308.8	103.6	48.29
311.0	001.1774	0087.6	018.0	100.4	022.5452	0308.9	103.7	48.22

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
312.0	001.1774	0087.9	018.1	100.2	022.3636	0309.1	103.8	48.15
313.0	001.1774	0088.2	018.1	100.1	022.1842	0309.2	104.0	48.08
314.0	001.1774	0088.6	018.1	099.9	022.0433	0309.3	104.1	48.01
315.0	001.1774	0088.9	018.2	099.8	021.9450	0309.4	104.2	47.95
316.0	001.1774	0089.2	018.2	099.6	021.8488	0309.5	104.4	47.89
317.0	001.1774	0089.4	018.2	099.5	021.7568	0309.6	104.6	47.82
318.0	001.1774	0089.5	018.3	099.3	021.6704	0309.8	104.8	47.75
319.0	001.1774	0089.3	018.2	099.2	021.5899	0309.9	105.0	47.67
320.0	001.1774	0089.0	018.2	099.1	021.5153	0310.0	105.2	47.59
321.0	001.1532	0088.5	018.0	099.0	021.4685	0310.1	105.5	47.48
322.0	001.1292	0087.9	017.9	098.9	021.4278	0310.1	105.9	47.37
323.0	001.1055	0087.3	017.7	098.9	021.3917	0310.2	106.2	47.26
324.0	001.0820	0086.6	017.5	098.8	021.3606	0310.2	106.5	47.16
325.0	001.0588	0085.7	017.3	098.8	021.3374	0310.2	106.9	47.04
326.0	001.0358	0084.7	017.1	098.8	021.3208	0310.3	107.3	46.93
327.0	001.0131	0083.7	016.9	098.7	021.3087	0310.3	107.6	46.82
328.0	000.9906	0082.9	016.7	098.7	021.2929	0310.3	108.0	46.72
329.0	000.9684	0082.5	016.5	098.7	021.2706	0310.3	108.3	46.62
330.0	000.9464	0082.2	016.4	098.6	021.2454	0310.4	108.6	46.53
331.0	000.9464	0082.0	016.4	098.6	021.1921	0310.4	108.9	46.45
332.0	000.9464	0082.0	016.4	098.5	021.1355	0310.5	109.1	46.38
333.0	000.9464	0082.2	016.4	098.4	021.0771	0310.5	109.3	46.30
334.0	000.9464	0082.4	016.4	098.3	021.0179	0310.6	109.5	46.23
335.0	000.9464	0082.5	016.4	098.2	020.9628	0310.6	109.8	46.16
336.0	000.9464	0082.5	016.4	098.1	020.9139	0310.6	110.0	46.08
337.0	000.9464	0082.3	016.4	098.0	020.8715	0310.6	110.3	46.00
338.0	000.9464	0082.1	016.4	098.0	020.8306	0310.6	110.5	45.92
339.0	000.9464	0082.0	016.4	097.9	020.7868	0310.6	110.8	45.84
340.0	000.9464	0082.1	016.4	097.8	020.7415	0310.6	111.0	45.77
341.0	000.9831	0082.0	016.5	097.7	020.6526	0310.6	111.2	45.70
342.0	001.0206	0081.7	016.7	097.5	020.5737	0310.6	111.4	45.63
343.0	001.0588	0081.5	016.8	097.4	020.4945	0310.5	111.6	45.56
344.0	001.0976	0080.9	016.9	097.3	020.4262	0310.4	111.8	45.48

02-02-2022

Terrain Data: GLOBE 30 Sec

FMOver Analysis

WHIL BLED19950728KE

WPSM.C

Channel = 217C

Max ERP = 100 kW

RCAMSL = 356 m

N. Lat. 30 41 20.70

W. Lng. 87 49 49.00

Protected

60 dBu

Channel = 216C3

Max ERP = 14 kW

RCAMSL = 107.7 m

N. Lat. 30 24 35.90

W. Lng. 86 37 23.60

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
045.0	037.2100	0298.6	062.3	316.7	001.1774	0089.4	103.4	28.38	
046.0	036.9664	0299.0	062.3	316.7	001.1774	0089.4	102.3	28.61	
047.0	036.7236	0299.2	062.2	316.7	001.1774	0089.4	101.2	28.84	
048.0	036.4816	0299.1	062.2	316.6	001.1774	0089.4	100.1	29.08	
049.0	036.2404	0299.0	062.1	316.6	001.1774	0089.4	099.0	29.32	
050.0	036.0000	0298.8	062.0	316.5	001.1774	0089.4	097.9	29.57	
051.0	035.8801	0298.8	062.0	316.4	001.1774	0089.3	096.9	29.82	
052.0	035.7604	0299.1	062.0	316.3	001.1774	0089.3	095.8	30.07	
053.0	035.6409	0299.5	062.0	316.2	001.1774	0089.3	094.7	30.33	
054.0	035.5216	0299.9	062.0	316.2	001.1774	0089.3	093.6	30.60	
055.0	035.4025	0300.4	062.0	316.0	001.1774	0089.3	092.6	30.87	
056.0	035.2836	0300.7	062.0	315.9	001.1774	0089.2	091.5	31.14	
057.0	035.1649	0301.1	062.0	315.8	001.1774	0089.2	090.5	31.41	
058.0	035.0464	0301.5	062.0	315.6	001.1774	0089.1	089.4	31.69	
059.0	034.9281	0301.6	061.9	315.5	001.1774	0089.1	088.4	31.96	
060.0	034.8100	0301.4	061.9	315.2	001.1774	0089.0	087.3	32.23	
061.0	034.6921	0301.0	061.8	315.0	001.1774	0088.9	086.3	32.50	
062.0	034.5744	0300.6	061.8	314.8	001.1774	0088.8	085.3	32.77	
063.0	034.4569	0300.3	061.7	314.5	001.1774	0088.7	084.3	33.04	
064.0	034.3396	0300.2	061.7	314.2	001.1774	0088.6	083.3	33.31	
065.0	034.2225	0300.1	061.6	313.9	001.1774	0088.5	082.3	33.58	
066.0	034.1056	0300.1	061.6	313.6	001.1774	0088.4	081.3	33.84	
067.0	033.9889	0300.5	061.6	313.3	001.1774	0088.3	080.3	34.10	
068.0	033.8724	0301.0	061.6	313.0	001.1774	0088.2	079.4	34.36	
069.0	033.7561	0301.6	061.6	312.6	001.1774	0088.1	078.4	34.62	
070.0	033.6400	0302.3	061.6	312.3	001.1774	0088.0	077.4	34.88	
071.0	033.4084	0302.9	061.6	311.9	001.1774	0087.9	076.5	35.13	
072.0	033.1776	0303.4	061.6	311.5	001.1774	0087.7	075.6	35.37	
073.0	032.9476	0304.0	061.5	311.0	001.1774	0087.6	074.7	35.61	
074.0	032.7184	0304.7	061.5	310.5	001.1774	0087.5	073.8	35.85	
075.0	032.4900	0305.5	061.5	310.1	001.1774	0087.4	072.9	36.09	
076.0	032.2624	0306.4	061.5	309.5	001.1811	0087.4	072.1	36.34	
077.0	032.0356	0307.3	061.5	309.0	001.1854	0087.4	071.2	36.60	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
078.0	031.8096	0308.3	061.5	308.5	001.1899	0087.5	070.4	36.86
079.0	031.5844	0309.0	061.5	307.9	001.1947	0087.7	069.6	37.11
080.0	031.3600	0309.2	061.4	307.2	001.1999	0087.8	068.8	37.36
081.0	030.9136	0309.2	061.3	306.5	001.2057	0088.0	068.2	37.58
082.0	030.4704	0309.1	061.1	305.8	001.2117	0088.1	067.5	37.79
083.0	030.0304	0308.9	061.0	305.0	001.2180	0088.2	066.9	37.99
084.0	029.5936	0308.7	060.8	304.3	001.2245	0088.4	066.4	38.20
085.0	029.1600	0308.2	060.6	303.4	001.2312	0088.7	065.8	38.39
086.0	028.7296	0307.7	060.5	302.6	001.2381	0089.0	065.3	38.58
087.0	028.3024	0307.5	060.3	301.8	001.2451	0089.1	064.9	38.76
088.0	027.8784	0307.4	060.2	300.9	001.2523	0089.3	064.4	38.92
089.0	027.4576	0307.4	060.0	300.1	001.2595	0089.6	064.0	39.09
090.0	027.0400	0307.3	059.9	299.2	001.2810	0090.1	063.6	39.32
091.0	026.0100	0307.2	059.5	298.2	001.3063	0090.8	063.5	39.49
092.0	025.0000	0307.3	059.1	297.2	001.3317	0091.6	063.4	39.66
093.0	024.0100	0307.5	058.7	296.2	001.3574	0092.1	063.3	39.80
094.0	023.0400	0307.7	058.4	295.2	001.3833	0092.5	063.3	39.91
095.0	022.0900	0308.8	058.0	294.3	001.4090	0092.7	063.2	40.02
096.0	021.1600	0309.7	057.7	293.3	001.4348	0092.9	063.2	40.11
097.0	020.2500	0310.3	057.3	292.3	001.4609	0093.4	063.3	40.18
098.0	020.8544	0310.6	057.6	291.5	001.4833	0093.9	062.8	40.45
099.0	021.4678	0310.1	057.9	290.6	001.5068	0094.5	062.4	40.70
100.0	022.0900	0309.2	058.1	289.8	001.5424	0094.9	062.0	40.96
101.0	023.2324	0308.4	058.5	288.9	001.6085	0095.4	061.4	41.36
102.0	024.4036	0307.6	058.9	288.0	001.6784	0095.8	060.9	41.74
103.0	025.6036	0307.1	059.3	287.0	001.7522	0096.2	060.4	42.13
104.0	026.8324	0307.0	059.8	286.1	001.8300	0096.7	059.9	42.52
105.0	028.0900	0306.5	060.2	285.1	001.9120	0097.1	059.5	42.88
106.0	029.3764	0305.9	060.6	284.0	001.9980	0097.3	059.1	43.21
107.0	030.6916	0305.0	060.9	283.0	002.0879	0097.3	058.8	43.51
108.0	032.0356	0304.1	061.3	281.9	002.1813	0097.3	058.6	43.78
109.0	033.4084	0303.1	061.6	280.8	002.2784	0097.1	058.4	44.03
110.0	034.8100	0302.1	061.9	279.7	002.3851	0096.8	058.3	44.26
111.0	036.6025	0301.3	062.4	278.6	002.5179	0096.3	058.1	44.53
112.0	038.4400	0300.7	062.8	277.4	002.6566	0095.6	057.9	44.77
113.0	040.3225	0300.1	063.2	276.3	002.8006	0094.8	057.8	44.99
114.0	042.2500	0299.8	063.7	275.1	002.9502	0094.3	057.7	45.20
115.0	044.2225	0299.6	064.1	273.9	003.1051	0094.3	057.7	45.43
116.0	046.2400	0299.5	064.6	272.7	003.2650	0094.4	057.7	45.65
117.0	048.3025	0299.5	065.0	271.5	003.4293	0094.9	057.8	45.86
118.0	050.4100	0299.6	065.4	270.3	003.5975	0096.5	058.0	46.13
119.0	052.5625	0299.7	065.9	269.1	003.8075	0098.3	058.1	46.44
120.0	054.7600	0299.8	066.3	267.9	004.0348	0100.2	058.4	46.72
121.0	057.6081	0299.7	066.8	266.7	004.2773	0101.5	058.6	46.98
122.0	060.5284	0299.8	067.3	265.5	004.5246	0102.0	058.9	47.16
123.0	063.5209	0300.3	067.8	264.3	004.7791	0102.2	059.2	47.30
124.0	066.5856	0301.0	068.3	263.1	005.0384	0102.0	059.6	47.38
125.0	069.7225	0301.5	068.9	261.9	005.2977	0101.8	060.0	47.43
126.0	072.9316	0301.6	069.3	260.8	005.5522	0101.7	060.5	47.45
127.0	076.2129	0301.5	069.7	259.7	005.8183	0102.1	061.1	47.47
128.0	079.5664	0301.4	070.2	258.7	006.1248	0102.7	061.8	47.51

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
129.0	082.9921	0301.4	070.6	257.6	006.4304	0103.5	062.5	47.54
130.0	086.4900	0301.4	071.0	256.7	006.7319	0104.1	063.2	47.54
131.0	089.1136	0301.3	071.3	255.8	007.0018	0104.5	064.0	47.46
132.0	091.7764	0301.1	071.6	255.0	007.2644	0104.9	064.9	47.37
133.0	094.4784	0300.9	071.9	254.2	007.5191	0105.1	065.9	47.25
134.0	097.2196	0300.8	072.2	253.5	007.7660	0105.3	066.8	47.11
135.0	100.0000	0300.7	072.4	252.7	008.0060	0105.5	067.8	46.95
136.0	100.0000	0300.7	072.4	252.3	008.1668	0105.6	068.9	46.70
137.0	100.0000	0300.8	072.4	251.8	008.3202	0105.7	070.1	46.45
138.0	100.0000	0301.0	072.5	251.4	008.4649	0105.9	071.2	46.18
139.0	100.0000	0301.1	072.5	251.0	008.6000	0105.9	072.4	45.91
140.0	100.0000	0301.0	072.5	250.7	008.7221	0106.0	073.6	45.63
141.0	100.0000	0300.9	072.5	250.4	008.8348	0106.1	074.8	45.34
142.0	100.0000	0301.0	072.5	250.0	008.9437	0106.2	076.0	45.05
143.0	100.0000	0301.4	072.5	249.7	009.0733	0106.2	077.2	44.77
144.0	100.0000	0301.9	072.5	249.5	009.1987	0106.3	078.4	44.49
145.0	100.0000	0302.4	072.6	249.2	009.3115	0106.4	079.6	44.19
146.0	100.0000	0302.7	072.6	249.0	009.4132	0106.4	080.8	43.90
147.0	100.0000	0303.1	072.6	248.8	009.5056	0106.4	082.1	43.59
148.0	100.0000	0303.4	072.6	248.6	009.5880	0106.5	083.3	43.28
149.0	100.0000	0303.6	072.7	248.5	009.6600	0106.5	084.5	42.96
150.0	100.0000	0303.8	072.7	248.3	009.7215	0106.5	085.8	42.64
151.0	100.0000	0304.1	072.7	248.2	009.7758	0106.5	087.1	42.31
152.0	100.0000	0304.3	072.7	248.1	009.8230	0106.6	088.3	41.99
153.0	100.0000	0304.6	072.7	248.0	009.8632	0106.6	089.6	41.66
154.0	100.0000	0304.8	072.7	248.0	009.8925	0106.6	090.8	41.33
155.0	100.0000	0304.7	072.7	247.9	009.9095	0106.6	092.1	40.99
156.0	100.0000	0304.7	072.7	247.9	009.9201	0106.6	093.4	40.66
157.0	100.0000	0304.9	072.8	247.9	009.9311	0106.6	094.7	40.34
158.0	100.0000	0305.5	072.8	247.9	009.9423	0106.6	095.9	40.02
159.0	100.0000	0306.3	072.9	247.8	009.9493	0106.6	097.2	39.71
160.0	100.0000	0306.9	072.9	247.9	009.9484	0106.6	098.5	39.39
161.0	100.0000	0307.6	073.0	247.9	009.9435	0106.6	099.7	39.09
162.0	100.0000	0308.6	073.0	247.9	009.9388	0106.6	101.0	38.79
163.0	100.0000	0309.8	073.1	247.9	009.9301	0106.6	102.3	38.50
164.0	100.0000	0310.5	073.2	247.9	009.9087	0106.6	103.6	38.20



## E-7 WPSM(FM).CP Mod. FMOver Tabulation To WHIL(FM) 217C

WPSM.C

WHIL BLED19950728KE

Channel = 216C3  
 Max ERP = 14 kW  
 RCAMSL = 107.7 m  
 N. Lat. 30 24 35.90  
 W. Lng. 86 37 23.60  
 Protected  
 60 dBu

Channel = 217C  
 Max ERP = 100 kW  
 RCAMSL = 356 m  
 N. Lat. 30 41 20.70  
 W. Lng. 87 49 49.00  
 Interfering  
 54 dBu

Terrain Data: FCC 30 meter

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
225.0	014.0000	0107.7	035.7	121.6	059.4634	0305.3	106.6	51.44	
226.0	014.0000	0107.7	035.7	121.6	059.2374	0305.2	106.0	51.60	
227.0	014.0000	0107.7	035.7	121.5	058.9925	0305.2	105.4	51.76	
228.0	014.0000	0107.7	035.7	121.4	058.7286	0305.1	104.8	51.92	
229.0	014.0000	0107.7	035.7	121.3	058.4455	0305.0	104.2	52.08	
230.0	014.0000	0107.7	035.7	121.2	058.1433	0304.9	103.6	52.24	
231.0	014.0000	0107.7	035.7	121.1	057.8217	0304.9	103.0	52.40	
232.0	014.0000	0107.7	035.7	121.0	057.4809	0304.8	102.4	52.55	
233.0	014.0000	0107.7	035.7	120.8	057.1207	0304.8	101.9	52.71	
234.0	014.0000	0107.7	035.7	120.7	056.7411	0304.8	101.3	52.86	
235.0	014.0000	0107.7	035.7	120.6	056.3423	0304.7	100.7	53.01	
236.0	014.0000	0107.7	035.7	120.4	055.9241	0304.7	100.1	53.15	
237.0	014.0000	0107.7	035.7	120.3	055.4867	0304.7	099.6	53.29	
238.0	014.0000	0107.7	035.7	120.1	055.0302	0304.7	099.0	53.43	
239.0	014.0000	0107.7	035.7	119.9	054.5979	0304.7	098.5	53.57	
240.0	014.0000	0107.7	035.7	119.8	054.2073	0304.7	097.9	53.71	
241.0	013.4456	0107.7	035.4	119.4	053.4491	0304.7	097.5	53.77	
242.0	012.9024	0107.7	035.1	119.1	052.6790	0304.7	097.2	53.81	
243.0	012.3704	0107.7	034.7	118.7	051.8932	0304.7	096.9	53.85	
244.0	011.8496	0107.7	034.4	118.3	051.1004	0304.8	096.6	53.89	
245.0	011.3400	0107.6	034.0	117.9	050.3004	0304.8	096.3	53.90	
246.0	010.8416	0107.6	033.7	117.6	049.4903	0304.9	096.0	53.92	
247.0	010.3544	0107.6	033.3	117.2	048.6742	0305.2	095.8	53.92	
248.0	009.8784	0107.6	032.9	116.8	047.8553	0305.3	095.6	53.92	
249.0	009.4136	0107.5	032.5	116.4	047.0234	0305.4	095.4	53.90	
250.0	008.9600	0107.5	032.2	116.0	046.1974	0305.3	095.3	53.87	
251.0	008.6052	0107.5	031.8	115.6	045.4488	0305.6	095.1	53.86	
252.0	008.2575	0107.4	031.5	115.2	044.6883	0305.9	094.9	53.84	
253.0	007.9171	0107.3	031.2	114.9	043.9399	0305.9	094.8	53.82	
254.0	007.5837	0107.4	030.9	114.5	043.2146	0305.8	094.7	53.78	
255.0	007.2576	0107.3	030.5	114.1	042.4706	0305.8	094.6	53.73	
256.0	006.9386	0107.3	030.2	113.7	041.7435	0305.6	094.5	53.68	
257.0	006.6268	0107.2	029.9	113.4	041.0198	0305.8	094.4	53.63	
258.0	006.3222	0107.0	029.6	113.0	040.3015	0306.1	094.4	53.57	
259.0	006.0247	0106.9	029.2	112.6	039.5930	0306.1	094.4	53.50	
260.0	005.7344	0106.7	028.9	112.2	038.8906	0306.0	094.4	53.41	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
261.0	005.5038	0106.3	028.5	111.9	038.2197	0306.2	094.4	53.34
262.0	005.2779	0105.9	028.2	111.5	037.5615	0306.4	094.4	53.27
263.0	005.0568	0106.1	028.0	111.2	036.9517	0306.5	094.4	53.21
264.0	004.8404	0107.3	027.9	110.9	036.4108	0306.6	094.3	53.18
265.0	004.6287	0107.5	027.6	110.6	035.8153	0306.7	094.3	53.12
266.0	004.4218	0107.6	027.3	110.2	035.2178	0307.2	094.3	53.04
267.0	004.2196	0107.4	027.0	109.9	034.6539	0307.6	094.4	52.96
268.0	004.0221	0106.9	026.7	109.5	034.1718	0307.6	094.5	52.86
269.0	003.8294	0106.1	026.3	109.2	033.6906	0307.5	094.7	52.74
270.0	003.6414	0105.0	025.9	108.9	033.2096	0307.8	095.0	52.61
271.0	003.5000	0102.8	025.4	108.5	032.7293	0307.7	095.3	52.44
272.0	003.3614	0101.4	025.0	108.2	032.2902	0307.6	095.5	52.31
273.0	003.2256	0100.4	024.7	107.9	031.8721	0307.6	095.7	52.19
274.0	003.0926	0099.9	024.4	107.6	031.4780	0307.9	095.9	52.09
275.0	002.9624	0099.2	024.1	107.3	031.0875	0308.2	096.1	51.98
276.0	002.8350	0098.9	023.8	107.0	030.7177	0308.6	096.3	51.88
277.0	002.7104	0098.7	023.5	106.7	030.3588	0308.9	096.4	51.79
278.0	002.5886	0099.3	023.3	106.5	030.0195	0309.5	096.6	51.72
279.0	002.4696	0099.5	023.1	106.2	029.6809	0309.8	096.7	51.63
280.0	002.3534	0099.7	022.9	106.0	029.3508	0310.0	096.9	51.53
281.0	002.2625	0100.2	022.7	105.7	029.0353	0310.2	097.0	51.46
282.0	002.1733	0100.5	022.5	105.5	028.7247	0310.3	097.2	51.37
283.0	002.0859	0100.5	022.3	105.3	028.4192	0310.3	097.4	51.26
284.0	002.0004	0100.3	022.1	105.0	028.1217	0310.5	097.6	51.15
285.0	001.9166	0100.1	021.8	104.8	027.8328	0310.5	097.8	51.03
286.0	001.8346	0099.8	021.6	104.6	027.5534	0310.4	098.1	50.91
287.0	001.7544	0099.5	021.3	104.4	027.2836	0310.4	098.3	50.78
288.0	001.6760	0099.2	021.1	104.2	027.0235	0310.4	098.6	50.65
289.0	001.5994	0098.9	020.8	104.0	026.7727	0310.5	098.9	50.52
290.0	001.5246	0098.6	020.5	103.8	026.5326	0310.6	099.2	50.39
291.0	001.4970	0098.1	020.4	103.6	026.2912	0310.7	099.4	50.29
292.0	001.4697	0097.5	020.2	103.4	026.0571	0310.8	099.6	50.20
293.0	001.4426	0096.8	020.1	103.2	025.8306	0311.0	099.8	50.09
294.0	001.4157	0096.5	019.9	103.0	025.6051	0311.1	100.0	50.00
295.0	001.3891	0095.9	019.8	102.8	025.3903	0311.2	100.2	49.90
296.0	001.3628	0095.5	019.6	102.6	025.1782	0311.1	100.4	49.80
297.0	001.3367	0095.6	019.5	102.5	024.9652	0311.2	100.6	49.70
298.0	001.3109	0094.9	019.4	102.3	024.7702	0311.2	100.8	49.59
299.0	001.2853	0094.4	019.2	102.1	024.5777	0311.2	101.1	49.49
300.0	001.2600	0094.0	019.1	102.0	024.3906	0311.2	101.3	49.38
301.0	001.2516	0093.3	019.0	101.8	024.2010	0311.2	101.5	49.28
302.0	001.2433	0092.2	018.8	101.7	024.0277	0311.0	101.8	49.17
303.0	001.2349	0092.0	018.8	101.5	023.8384	0311.0	101.9	49.08
304.0	001.2266	0091.6	018.7	101.4	023.6568	0310.9	102.1	48.98
305.0	001.2183	0091.5	018.6	101.2	023.4723	0310.8	102.3	48.89
306.0	001.2101	0091.3	018.6	101.1	023.2929	0310.8	102.5	48.80
307.0	001.2019	0091.2	018.5	100.9	023.1159	0310.8	102.7	48.71
308.0	001.1937	0091.0	018.5	100.8	022.9447	0310.9	102.9	48.62
309.0	001.1855	0090.7	018.4	100.6	022.7805	0311.0	103.1	48.53
310.0	001.1774	0090.8	018.4	100.5	022.6079	0311.4	103.2	48.45
311.0	001.1774	0091.0	018.4	100.3	022.4230	0311.7	103.4	48.39

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
312.0	001.1774	0091.2	018.4	100.1	022.2421	0311.9	103.5	48.32
313.0	001.1774	0091.8	018.5	100.0	022.0678	0312.4	103.6	48.26
314.0	001.1774	0091.6	018.5	099.8	021.9773	0312.8	103.8	48.20
315.0	001.1774	0092.3	018.6	099.6	021.8700	0313.4	103.9	48.16
316.0	001.1774	0092.8	018.6	099.5	021.7694	0313.9	104.1	48.11
317.0	001.1774	0093.0	018.6	099.3	021.6751	0314.1	104.3	48.04
318.0	001.1774	0092.8	018.6	099.2	021.5924	0314.2	104.5	47.96
319.0	001.1774	0092.4	018.6	099.1	021.5162	0314.3	104.7	47.88
320.0	001.1774	0091.2	018.4	099.0	021.4607	0314.3	105.0	47.77
321.0	001.1532	0090.2	018.2	098.9	021.4251	0314.3	105.4	47.65
322.0	001.1292	0090.0	018.1	098.8	021.3744	0314.3	105.7	47.55
323.0	001.1055	0089.3	017.9	098.8	021.3399	0314.2	106.0	47.43
324.0	001.0820	0089.1	017.8	098.7	021.2945	0314.2	106.3	47.33
325.0	001.0588	0088.2	017.6	098.7	021.2698	0314.2	106.7	47.22
326.0	001.0358	0086.9	017.3	098.7	021.2603	0314.1	107.1	47.10
327.0	001.0131	0086.2	017.2	098.6	021.2370	0314.1	107.4	46.99
328.0	000.9906	0086.0	017.0	098.6	021.2055	0314.0	107.8	46.89
329.0	000.9684	0085.7	016.9	098.5	021.1770	0313.9	108.1	46.79
330.0	000.9464	0085.4	016.7	098.5	021.1529	0313.9	108.4	46.69
331.0	000.9464	0085.7	016.8	098.4	021.0851	0313.8	108.6	46.61
332.0	000.9464	0085.4	016.7	098.3	021.0356	0313.7	108.9	46.53
333.0	000.9464	0085.5	016.8	098.2	020.9783	0313.7	109.1	46.45
334.0	000.9464	0085.9	016.8	098.1	020.9095	0313.7	109.3	46.37
335.0	000.9464	0086.1	016.8	098.0	020.8536	0313.6	109.5	46.29
336.0	000.9464	0086.3	016.8	097.9	020.7956	0313.5	109.8	46.21
337.0	000.9464	0086.2	016.8	097.8	020.7474	0313.4	110.0	46.13
338.0	000.9464	0086.3	016.8	097.7	020.6990	0313.3	110.3	46.05
339.0	000.9464	0086.6	016.9	097.7	020.6432	0313.2	110.5	45.97
340.0	000.9464	0086.2	016.8	097.6	020.6119	0313.1	110.8	45.88
341.0	000.9831	0086.0	017.0	097.5	020.5250	0313.0	111.0	45.81
342.0	001.0206	0084.9	017.1	097.4	020.4683	0312.8	111.2	45.72
343.0	001.0588	0083.9	017.1	097.3	020.4140	0312.7	111.5	45.64
344.0	001.0976	0083.7	017.3	097.1	020.3334	0312.5	111.7	45.56

02-02-2022

Terrain Data: FCC 30 meter

FMOver Analysis

WHIL BLED19950728KE

WPSM.C

Channel = 217C

Max ERP = 100 kW

RCAMSL = 356 m

N. Lat. 30 41 20.70

W. Lng. 87 49 49.00

Protected

60 dBu

Channel = 216C3

Max ERP = 14 kW

RCAMSL = 107.7 m

N. Lat. 30 24 35.90

W. Lng. 86 37 23.60

Interfering

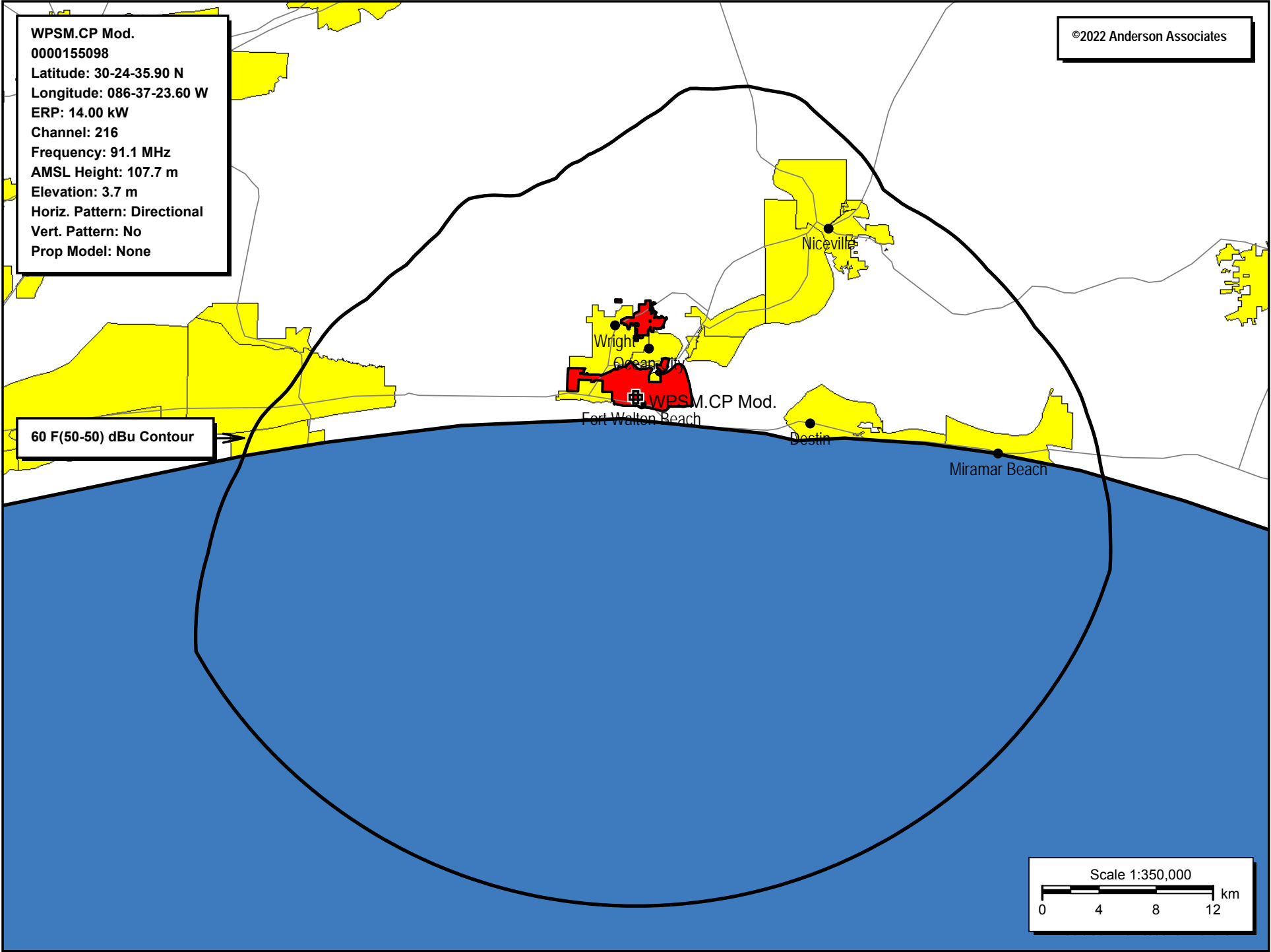
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
045.0	037.2100	0303.9	062.7	316.9	001.1774	0093.0	103.4	28.51	
046.0	036.9664	0304.6	062.7	316.9	001.1774	0093.0	102.3	28.74	
047.0	036.7236	0305.2	062.7	316.9	001.1774	0093.0	101.2	28.98	
048.0	036.4816	0305.3	062.6	316.9	001.1774	0093.0	100.1	29.22	
049.0	036.2404	0305.5	062.6	316.8	001.1774	0093.0	099.0	29.47	
050.0	036.0000	0306.0	062.5	316.8	001.1774	0093.0	097.9	29.72	
051.0	035.8801	0307.6	062.6	316.8	001.1774	0093.0	096.8	29.98	
052.0	035.7604	0306.4	062.5	316.6	001.1774	0093.0	095.7	30.24	
053.0	035.6409	0306.8	062.5	316.6	001.1774	0092.9	094.7	30.50	
054.0	035.5216	0306.8	062.5	316.5	001.1774	0092.9	093.6	30.77	
055.0	035.4025	0308.0	062.5	316.4	001.1774	0092.9	092.5	31.05	
056.0	035.2836	0308.9	062.6	316.3	001.1774	0092.9	091.4	31.33	
057.0	035.1649	0309.5	062.6	316.2	001.1774	0092.8	090.3	31.61	
058.0	035.0464	0308.6	062.5	316.0	001.1774	0092.8	089.3	31.88	
059.0	034.9281	0308.5	062.4	315.8	001.1774	0092.8	088.2	32.16	
060.0	034.8100	0308.3	062.4	315.6	001.1774	0092.7	087.2	32.44	
061.0	034.6921	0308.5	062.4	315.4	001.1774	0092.5	086.2	32.72	
062.0	034.5744	0307.9	062.3	315.1	001.1774	0092.4	085.1	32.99	
063.0	034.4569	0306.2	062.1	314.8	001.1774	0092.2	084.2	33.25	
064.0	034.3396	0306.2	062.1	314.5	001.1774	0092.0	083.1	33.52	
065.0	034.2225	0305.3	062.0	314.2	001.1774	0091.8	082.2	33.77	
066.0	034.1056	0306.7	062.1	313.9	001.1774	0091.6	081.1	34.05	
067.0	033.9889	0307.0	062.1	313.6	001.1774	0091.6	080.1	34.32	
068.0	033.8724	0307.2	062.0	313.3	001.1774	0091.6	079.2	34.59	
069.0	033.7561	0308.1	062.1	312.9	001.1774	0091.8	078.2	34.87	
070.0	033.6400	0308.8	062.1	312.6	001.1774	0091.6	077.2	35.13	
071.0	033.4084	0308.2	062.0	312.1	001.1774	0091.3	076.3	35.36	
072.0	033.1776	0308.4	061.9	311.7	001.1774	0091.1	075.4	35.60	
073.0	032.9476	0309.9	062.0	311.3	001.1774	0091.1	074.5	35.87	
074.0	032.7184	0310.6	061.9	310.8	001.1774	0090.9	073.6	36.11	
075.0	032.4900	0311.3	061.9	310.3	001.1774	0090.9	072.7	36.35	
076.0	032.2624	0312.4	061.9	309.8	001.1789	0090.7	071.8	36.60	
077.0	032.0356	0312.7	061.9	309.3	001.1834	0090.6	071.0	36.85	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
078.0	031.8096	0313.0	061.8	308.7	001.1882	0090.7	070.2	37.10
079.0	031.5844	0312.6	061.7	308.0	001.1934	0091.0	069.4	37.35
080.0	031.3600	0312.8	061.7	307.4	001.1986	0091.2	068.7	37.61
081.0	030.9136	0311.3	061.4	306.6	001.2050	0091.1	068.1	37.80
082.0	030.4704	0310.1	061.2	305.8	001.2114	0091.4	067.5	38.01
083.0	030.0304	0310.3	061.1	305.1	001.2175	0091.4	066.9	38.21
084.0	029.5936	0310.8	061.0	304.3	001.2238	0091.6	066.2	38.43
085.0	029.1600	0311.1	060.8	303.6	001.2303	0091.7	065.7	38.63
086.0	028.7296	0310.7	060.7	302.7	001.2372	0092.0	065.2	38.82
087.0	028.3024	0311.2	060.6	301.9	001.2441	0092.3	064.7	39.02
088.0	027.8784	0310.3	060.4	301.0	001.2515	0093.3	064.3	39.23
089.0	027.4576	0309.5	060.2	300.1	001.2590	0093.9	063.9	39.41
090.0	027.0400	0310.6	060.1	299.3	001.2785	0094.3	063.4	39.64
091.0	026.0100	0310.8	059.7	298.3	001.3037	0094.9	063.2	39.82
092.0	025.0000	0311.8	059.4	297.3	001.3287	0095.3	063.1	39.98
093.0	024.0100	0314.1	059.2	296.4	001.3533	0095.6	062.9	40.14
094.0	023.0400	0315.2	058.9	295.4	001.3790	0095.8	062.8	40.27
095.0	022.0900	0314.2	058.4	294.4	001.4061	0096.4	062.9	40.36
096.0	021.1600	0312.2	057.9	293.3	001.4336	0096.6	063.1	40.39
097.0	020.2500	0312.4	057.5	292.4	001.4601	0097.2	063.2	40.47
098.0	020.8544	0313.6	057.8	291.5	001.4821	0097.7	062.6	40.76
099.0	021.4678	0314.3	058.1	290.7	001.5054	0098.3	062.1	41.04
100.0	022.0900	0312.3	058.3	289.8	001.5401	0098.7	061.8	41.27
101.0	023.2324	0310.8	058.7	288.9	001.6070	0099.0	061.3	41.64
102.0	024.4036	0311.2	059.2	288.0	001.6767	0099.2	060.6	42.05
103.0	025.6036	0311.1	059.6	287.0	001.7510	0099.4	060.1	42.44
104.0	026.8324	0310.5	060.0	286.1	001.8296	0099.8	059.7	42.81
105.0	028.0900	0310.5	060.4	285.1	001.9123	0100.0	059.2	43.18
106.0	029.3764	0310.0	060.8	284.0	001.9991	0100.3	058.9	43.52
107.0	030.6916	0308.6	061.2	283.0	002.0896	0100.5	058.6	43.82
108.0	032.0356	0307.6	061.5	281.9	002.1838	0100.4	058.4	44.09
109.0	033.4084	0307.7	061.9	280.8	002.2827	0100.1	058.1	44.35
110.0	034.8100	0307.5	062.3	279.7	002.3933	0099.5	057.9	44.60
111.0	036.6025	0306.5	062.7	278.5	002.5279	0099.4	057.7	44.90
112.0	038.4400	0306.1	063.2	277.3	002.6690	0098.9	057.5	45.16
113.0	040.3225	0306.1	063.7	276.1	002.8167	0098.9	057.4	45.44
114.0	042.2500	0305.7	064.1	274.9	002.9689	0099.2	057.3	45.72
115.0	044.2225	0305.9	064.6	273.7	003.1282	0100.0	057.3	46.02
116.0	046.2400	0305.3	065.0	272.5	003.2887	0100.8	057.4	46.26
117.0	048.3025	0305.2	065.4	271.3	003.4552	0102.3	057.4	46.54
118.0	050.4100	0304.8	065.8	270.1	003.6239	0104.7	057.6	46.84
119.0	052.5625	0304.7	066.2	268.9	003.8430	0106.2	057.8	47.11
120.0	054.7600	0304.7	066.7	267.7	004.0734	0107.1	058.1	47.33
121.0	057.6081	0304.9	067.2	266.5	004.3210	0107.6	058.3	47.53
122.0	060.5284	0305.7	067.7	265.2	004.5793	0107.6	058.5	47.70
123.0	063.5209	0307.3	068.3	264.0	004.8483	0107.3	058.8	47.83
124.0	066.5856	0308.9	068.9	262.7	005.1223	0106.0	059.1	47.87
125.0	069.7225	0310.3	069.5	261.5	005.3951	0105.8	059.6	47.93
126.0	072.9316	0309.4	069.9	260.4	005.6434	0106.7	060.1	47.97
127.0	076.2129	0309.1	070.3	259.3	005.9336	0106.8	060.8	47.98
128.0	079.5664	0308.5	070.7	258.3	006.2382	0106.9	061.4	47.97

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
129.0	082.9921	0308.0	071.1	257.3	006.5402	0107.2	062.2	47.95
130.0	086.4900	0307.5	071.5	256.3	006.8386	0107.2	062.9	47.89
131.0	089.1136	0307.5	071.8	255.4	007.1134	0107.2	063.8	47.78
132.0	091.7764	0307.7	072.1	254.6	007.3844	0107.3	064.7	47.67
133.0	094.4784	0306.8	072.3	253.9	007.6286	0107.4	065.6	47.51
134.0	097.2196	0307.1	072.6	253.1	007.8873	0107.3	066.6	47.36
135.0	100.0000	0307.1	072.9	252.4	008.1292	0107.5	067.6	47.19
136.0	100.0000	0307.4	072.9	251.9	008.2962	0107.4	068.7	46.93
137.0	100.0000	0307.4	072.9	251.5	008.4478	0107.5	069.9	46.67
138.0	100.0000	0307.6	073.0	251.0	008.5943	0107.5	071.0	46.39
139.0	100.0000	0308.1	073.0	250.6	008.7368	0107.6	072.2	46.12
140.0	100.0000	0308.1	073.0	250.3	008.8616	0107.6	073.4	45.83
141.0	100.0000	0308.1	073.0	250.0	008.9793	0107.5	074.6	45.53
142.0	100.0000	0308.2	073.0	249.7	009.1157	0107.4	075.8	45.24
143.0	100.0000	0308.2	073.0	249.4	009.2378	0107.5	077.0	44.95
144.0	100.0000	0308.6	073.0	249.1	009.3594	0107.5	078.3	44.66
145.0	100.0000	0309.6	073.1	248.8	009.4847	0107.5	079.5	44.37
146.0	100.0000	0310.4	073.2	248.6	009.5974	0107.6	080.7	44.07
147.0	100.0000	0310.4	073.2	248.4	009.6802	0107.6	082.0	43.75
148.0	100.0000	0310.5	073.2	248.3	009.7552	0107.6	083.2	43.43
149.0	100.0000	0311.0	073.2	248.1	009.8315	0107.6	084.5	43.11
150.0	100.0000	0311.2	073.2	248.0	009.8918	0107.6	085.7	42.78
151.0	100.0000	0311.4	073.2	247.9	009.9442	0107.6	087.0	42.45
152.0	100.0000	0311.5	073.2	247.8	009.9855	0107.6	088.3	42.12
153.0	100.0000	0311.2	073.2	247.7	010.0092	0107.6	089.5	41.78
154.0	100.0000	0311.7	073.3	247.6	010.0456	0107.6	090.8	41.45
155.0	100.0000	0312.0	073.3	247.6	010.0679	0107.6	092.1	41.11
156.0	100.0000	0311.7	073.3	247.6	010.0720	0107.6	093.4	40.77
157.0	100.0000	0312.3	073.3	247.6	010.0881	0107.6	094.7	40.45
158.0	100.0000	0311.7	073.3	247.6	010.0724	0107.6	095.9	40.11
159.0	100.0000	0312.5	073.3	247.6	010.0784	0107.6	097.2	39.80
160.0	100.0000	0313.6	073.4	247.6	010.0862	0107.6	098.5	39.49
161.0	100.0000	0314.2	073.4	247.6	010.0764	0107.6	099.8	39.18
162.0	100.0000	0314.4	073.5	247.6	010.0534	0107.6	101.1	38.87
163.0	100.0000	0315.2	073.5	247.7	010.0359	0107.6	102.3	38.57
164.0	100.0000	0316.9	073.6	247.7	010.0302	0107.6	103.6	38.28

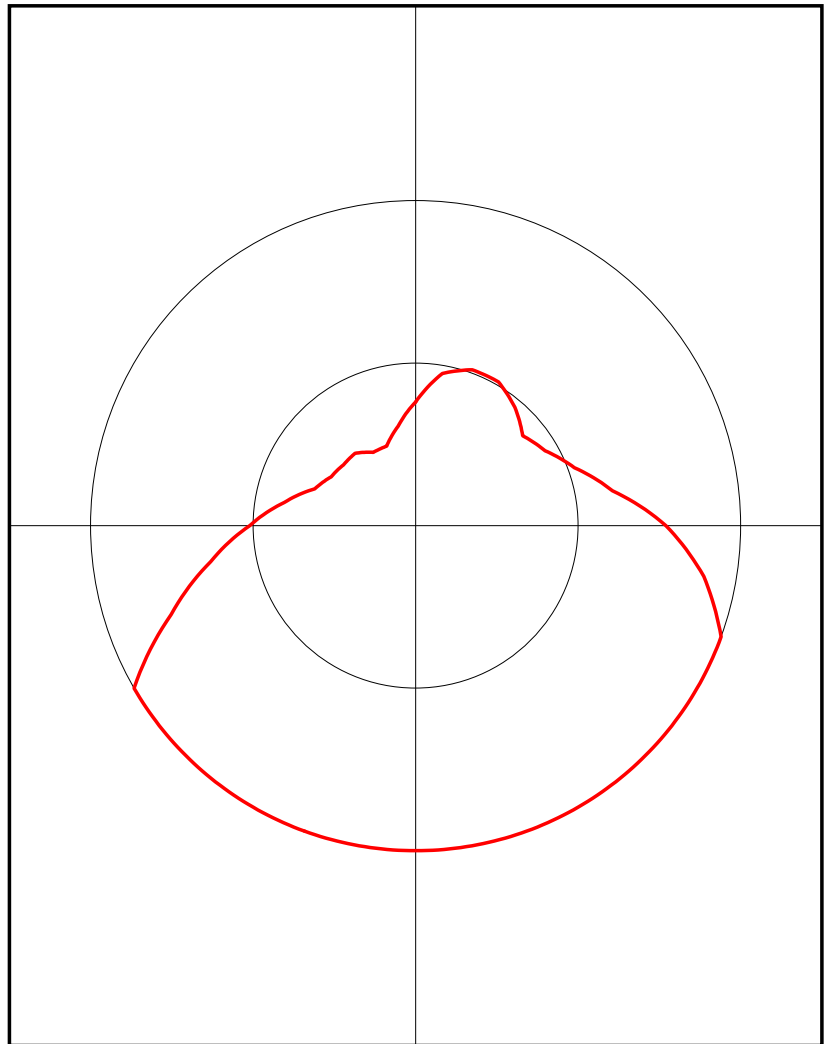
E-8 WPSM(FM).CP Mod. 216C3 60 F(50-50) dBu Contour Plot



# E-9 WPSM(FM).CP Mod. Antenna Pattern

Azimuth (deg)                      Relative Field

0.0	0.38
10.0	0.475
20.0	0.51
30.0	0.51
40.0	0.475
50.0	0.43
60.0	0.46
70.0	0.52
80.0	0.615
90.0	0.77
100.0	0.9
110.0	1.0
120.0	1.0
130.0	1.0
140.0	1.0
150.0	1.0
160.0	1.0
170.0	1.0
180.0	1.0
190.0	1.0
200.0	1.0
210.0	1.0
220.0	1.0
230.0	1.0
240.0	1.0
250.0	0.8
260.0	0.64
270.0	0.51
280.0	0.41
290.0	0.33
300.0	0.3
310.0	0.29
320.0	0.29
330.0	0.26
340.0	0.26
350.0	0.31





## Antenna Height Above Average Terrain Calculations -- Results

### Input Data

Latitude **30° 24' 35.9"** North

Longitude **86° 37' 23.6"** West (NAD 83)

Height of antenna radiation center above mean sea level: **107.7** meters ~~AMSL~~

Number of Evenly Spaced Radials = **8**      0° is referenced to True North

### Results

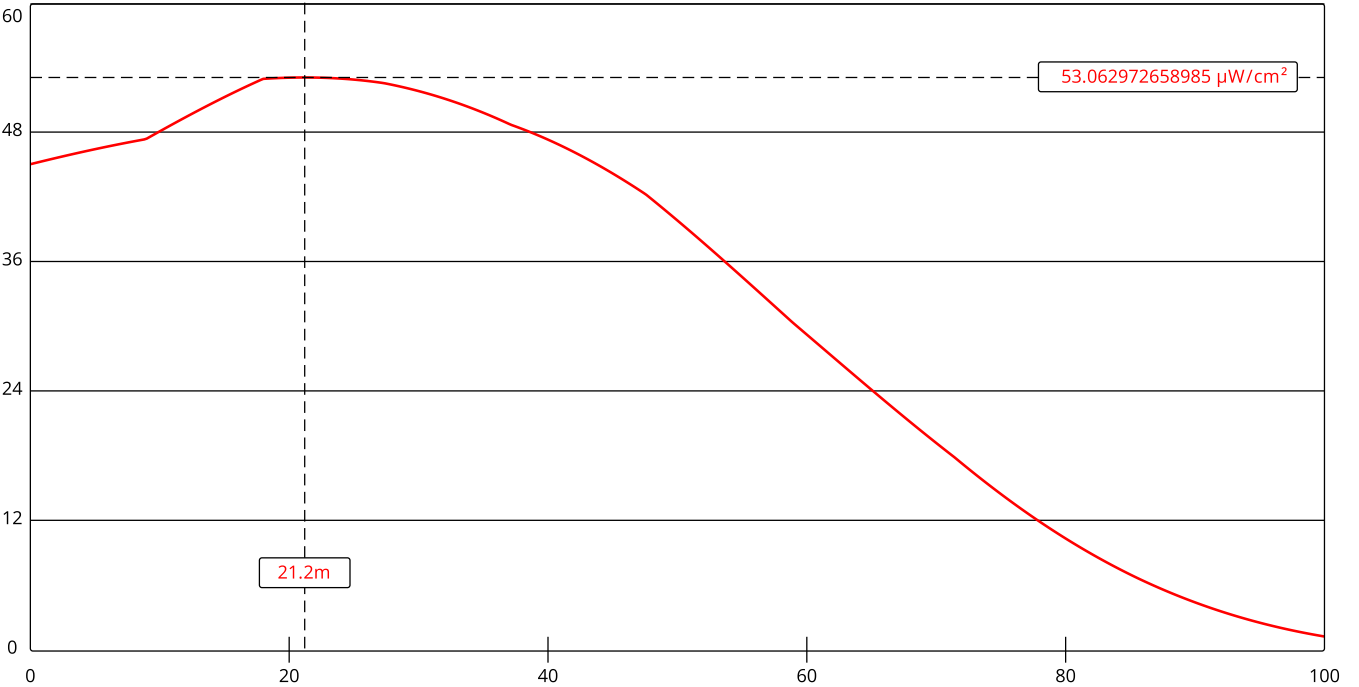
Calculated HAAT = **98 meters**

Antenna Height Above Average Terrain calculated  
using 1 km [GLOBE terrain data](#)

### Individual "Radial HAAT" Values, in meters

0°	75.2 m
45°	92.9 m
90°	105.5 m
135°	107.6 m
180°	107.7 m
225°	107.7 m
270°	96.9 m
315°	89.2 m

E-11 WPSM(FM) 216C3.CP Mod. RF Calculation



Channel Selection	Channel 216 (91.1 MHz) ▾		
<a href="#">Antenna Type +</a>	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="104"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="14000"/>	ERP-V (W)	<input type="text" value="14000"/>
Num of Elements	<input type="text" value="3"/>	Element Spacing (λ)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>		

## ASR Registration 1228891

### Registration Detail

Reg Number	1228891	Status	Constructed
File Number	A1151659	Constructed	05/20/2004
EMI	No	Dismantled	
NEPA			

### Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

#### Location (in NAD83 Coordinates)

Lat/Long	30-24-35.9 N 086-37-23.6 W	Address	122 Hollywood Blvd.
City, State	Ft. Walton Beach , FL		
Zip	32548	County	OKALOOSA
Center of AM Array		Position of Tower in Array	

#### Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
3.7	156.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
160.1	155.4

### Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1L

### FAA Notification

FAA Study	2017-ASO-13908-OE	FAA Issue Date	07/25/2017
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### Owner & Contact Information

FRN	0026662593	Owner Entity Type	Limited Liability Company
Assignor FRN	0028735827	Assignor ID	L02286600

#### Owner

EIP Communications I, LLC  
Attention To: Mark Uminski  
Two Allegheny Center, Nova Tower 2  
Suite 703  
Pittsburgh , PA 15212

P: (844)547-0547  
F:  
E: techsupport@everestinfrastructure.com

#### Contact

Uminski , Mark  
Attention To: Mark Uminski  
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Pittsburgh , PA 15212

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