

**WLTE(FM) 240A.CP  
Minor Modification**

This technical report is submitted for a minor modification to the WLTE(FM).CP 240A facility at Pendleton, SC, FCC file no. BPH-20121226AAO. Changes in tower site, antenna and ERP are requested.

The following exhibits are provided for the form 301 application:

- E-1 WLTE(FM) Spacing Study
- E-2 Interference Plot to WHQC(FM) 241C Lic.
- E-3 Max. Class Interference Plot
- E-4 FMOver Calculation
- E-5 Interference Plot to WHQC(FM) 241C.CP
- E-6 Max. Class Interference Plot
- E-7 FMOver Calculation
- E-8 HAAT Calculation
- E-9 Directional Antenna Pattern
- E-10 WLTE(FM) 70 dBu Community Coverage Plot
- E-11 Enhanced Contour Plot
- E-12 Distance to Contour Tabulation
- E-13 Tower ASR 1243389

**WLTE(FM).CP Modification Analysis:**

WLTE(FM) will be fully-spaced, with the exception to the WHQC(FM) licensed and CP 241C at Shelby, NC, FCC facility I.D. 74194 (exhibit E-1). As a result, it is requested that WLTE(FM) is to be designated as a 72.215 short-spaced facility. The modification will not produce an interference overlap to any primary facilities (exhibits E-2 to E-7).

WLTE(FM) is to be located on the existing tower, ASR 1243389, at coordinates:

**34-42-33N 82-34-29W NAD27.**

The facility will operate at an ERP of 5.3 kW at a COR AGL of 62 meters, 362 meters AMSL, and 100 meter HAAT (exhibit E-8) using a three bay Shively 6810 full-wavelength directional antenna (exhibit E-9). Using the Longley-Rice first occurrence propagation, the 70 dBu contour covers 86.8% of the 2010 U.S. Census of the Pendleton, SC community of license boundary and 95.0% population (exhibit E-10). The calculated 70 dBu contour is within the FCC 60 dBu contour and is greater than 10% of the 70 dBu FCC F(50-50) contour at the azimuths which encompass the city boundary (exhibits E-11 and E-12).

**RF Exposure Calculation:**

The RF contribution was calculated using the formula from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (distance to radiation center in meters -2m)}}$$

Using an vertical (F) factor of 0.40 from the antenna manufacturer, the RF is calculated to be 15.74  $\mu\text{W/cm}^2$  at a 60 degree depression angle to the ground, which is well below the 200  $\mu\text{W/cm}^2$  maximum permissible for general public exposure.

**Conclusion:**

It is submitted the minor modification application to WLTE(FM) 240A is in full compliance with the Commission rules and policies.

  
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Christopher Anderson November 24, 2013  
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E-1 WLTE(FM).CP Spacing Study

REFERENCE

34 42 33.0 N.

82 34 29.0 W.

CLASS = A

Current Spacings to 3rd Adj.

Channel 240 - 95.9 MHz

DISPLAY DATES

DATA 11-24-13

SEARCH 11-24-13

Call	Channel		Location		Azi	Dist	FCC	Margin
WLTE	CP -N	240A	Pendleton	SC	228.8	14.96	114.5	-99.5
WLTE	CP -N	240A	Pendleton	SC	268.2	34.93	114.5	-79.6
WHQC	LIC-D	241C	Shelby	NC	60.3	148.40	164.5	-16.1 (1)
WHQC	CP -D	241C	Shelby	NC	60.3	148.40	164.5	-16.1 (1)
WYPJ	LIC-Z	237A	Due West	SC	152.0	35.33	30.5	4.8
WXRC	LIC-D	239C0	Hickory	NC	58.5	160.77	151.5	9.3
WQZY	LIC	240C0	Dublin	GA	179.6	225.25	214.5	10.8
WCVF-FM	LIC	240A	Robbinsville	NC	299.1	127.00	114.5	12.5
WGOG	LIC	242A	Walhalla	SC	290.8	47.31	30.5	16.8
WRZK	LIC-Z	240C2	Colonial Heights	TN	359.7	201.65	165.5	36.2
WWPW	CP	241C0	Atlanta	GA	238.8	190.86	151.5	39.4
WWPW	LIC	241C0	Atlanta	GA	238.8	190.93	151.5	39.4
WRBN	CP -Z	242A	Clayton	GA	286.2	79.99	30.5	49.5
1356789	APP	237A	Dillsboro	NC	317.1	80.12	30.5	49.6

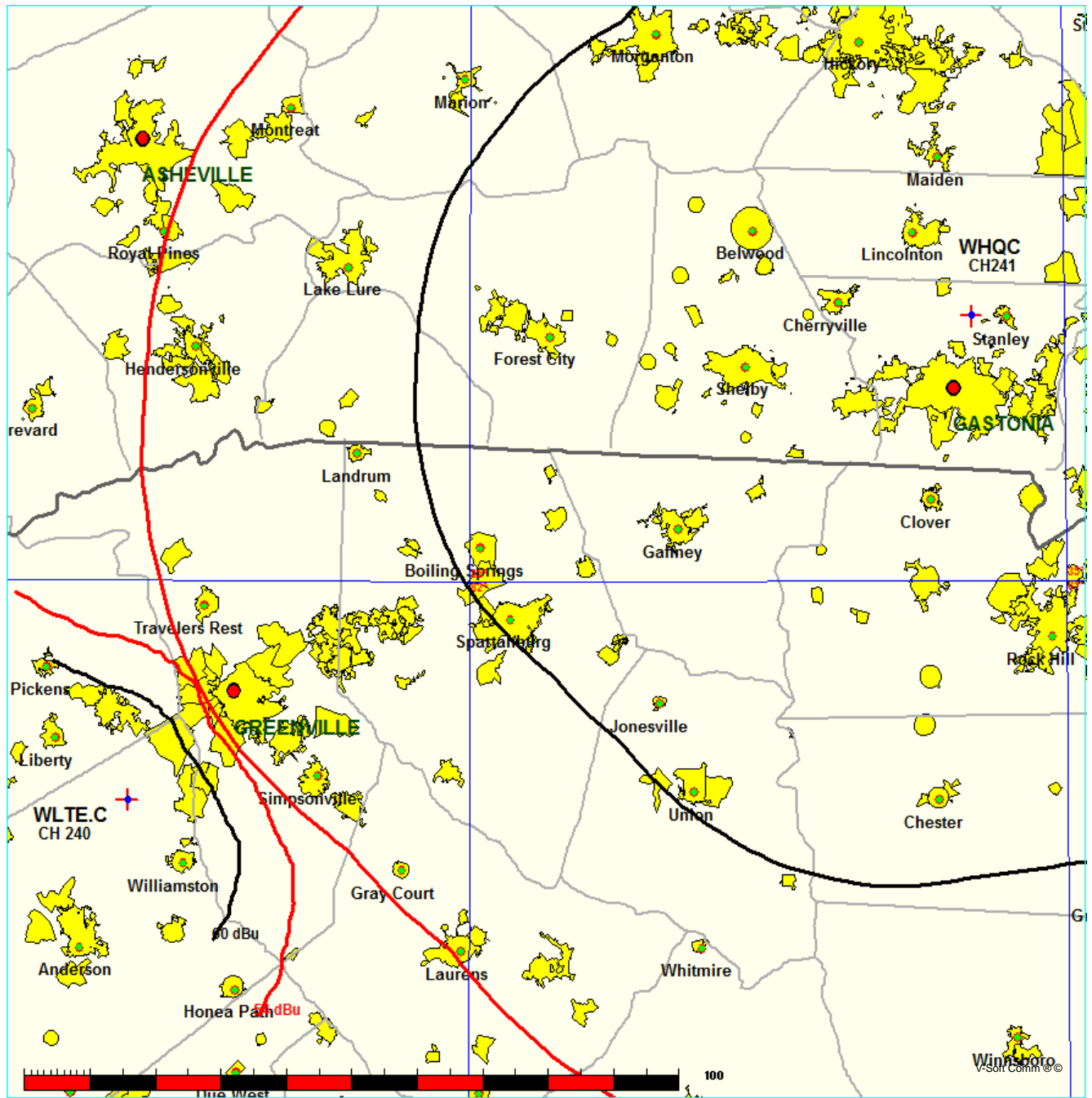
(1) The modification to WLTE(FM) is to be designated as a 73.215 short-spaced facility with respect to WHQC(FM) 241C Lic. and CP primary facilities.

## E-2 WLTE(FM).CP Interference Plot to WHQC(FM) 241C Lic.

FMCommander Single Allocation Study - 11-24-2013 - FCC NGDC 30 Sec  
WLTE.C's Overlaps (In= 0.0 km, Out= 0.0 km)

WLTE.C CH 240 A DA  
Lat= 34 42 33.0, Lng= 82 34 29.0  
5.3 kW 100 M HAAT, 362 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WHQC CH 241 C DA BLH19870206KJ  
Lat= 35 21 44.0, Lng= 81 09 19.0  
100.0 kW 530 M HAAT, 766 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

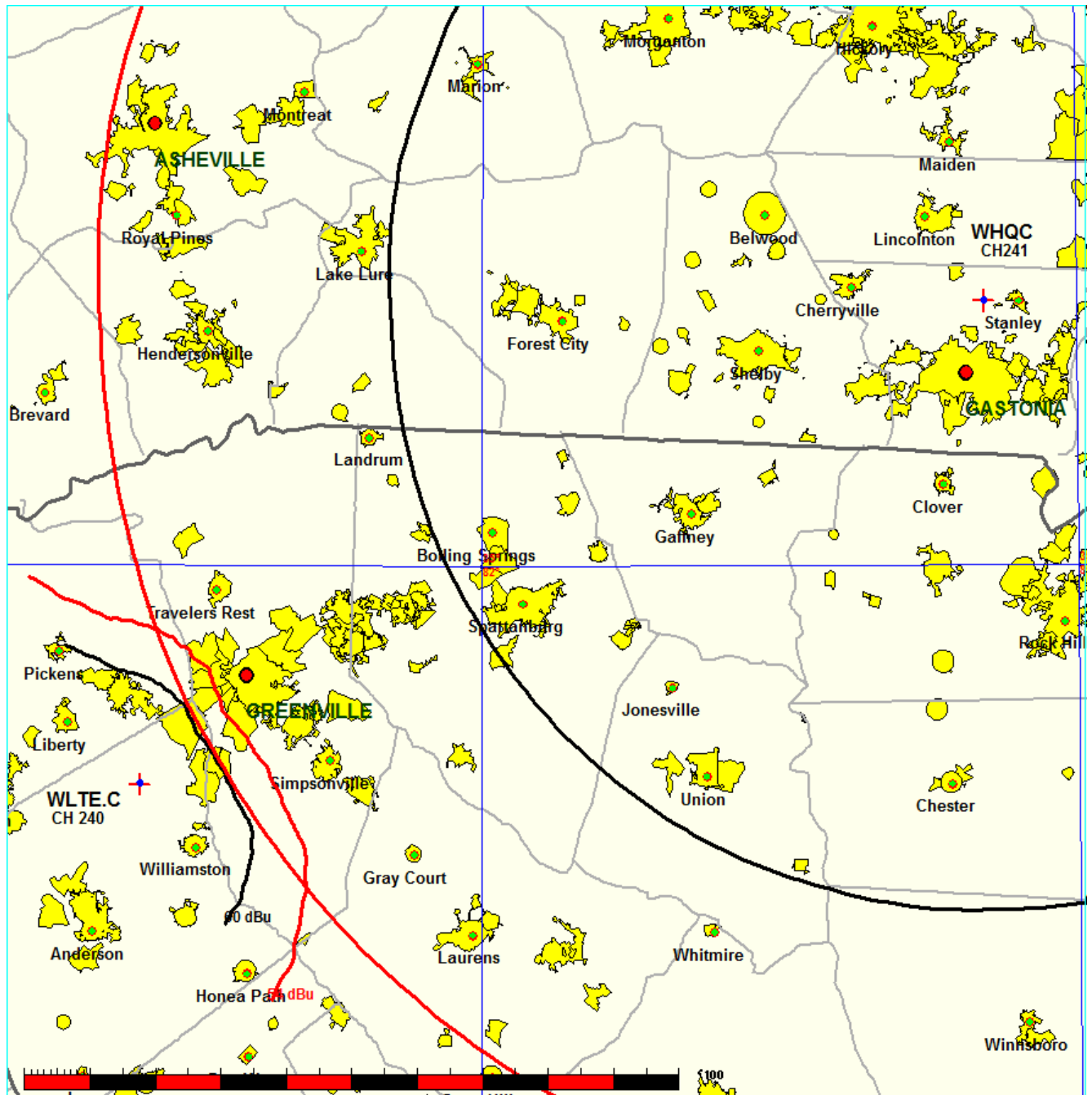


### E-3 WLTE(FM).CP Interference Plot to WHQC(FM) Lic. at Max. Class

FMCommander Single Allocation Study - 11-24-2013 - FCC NGDC 30 Sec  
WLTE.C's Overlaps (In= 0.2 km, Out= 39.59 km)

WLTE.C CH 240 A DA  
Lat= 34 42 33.0, Lng= 82 34 29.0  
5.3 kW 100 M HAAT, 362 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WHQC^ CH 241 C DA BLH19870206KJ  
Lat= 35 21 44.0, Lng= 81 09 19.0  
Max Cls: 100.0 kW 600 M HAAT, 836 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



# E-4 WLTE.CP FMOver Analysis to WHQC(FM) Lic. at Max. Class

Terrain Data: FCC NGDC 30 Sec  
Channel = 240A  
Max ERP = 5.3 kW  
RCAMSL = 362 M  
N. Lat. 34 42 33.0  
W. Lng. 82 34 29.0  
Protected  
60 dBu

WHQC BLH19870206KJ  
Channel = 241C  
Max ERP = 100 kW  
RCAMSL = 836 M  
N. Lat. 35 21 44.0  
W. Lng. 81 09 19.0  
Interfering  
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
000.0	001.1708	0069.1	015.8	246.7	100.0000	0589.0	141.1	52.70	
001.0	001.1239	0070.2	015.7	246.6	100.0000	0589.1	140.8	52.76	
002.0	001.0780	0071.3	015.7	246.5	100.0000	0589.2	140.6	52.82	
003.0	001.0331	0072.1	015.6	246.4	100.0000	0589.2	140.4	52.87	
004.0	000.9891	0072.9	015.5	246.3	100.0000	0589.3	140.2	52.92	
005.0	000.9461	0074.1	015.4	246.3	100.0000	0589.4	140.0	52.98	
006.0	000.9040	0075.1	015.4	246.2	100.0000	0589.5	139.8	53.03	
007.0	000.8629	0076.2	015.3	246.1	100.0000	0589.6	139.6	53.08	
008.0	000.8228	0077.3	015.2	246.0	100.0000	0589.6	139.4	53.13	
009.0	000.7836	0077.4	015.0	245.9	100.0000	0589.7	139.3	53.16	
010.0	000.7453	0077.8	014.9	245.8	100.0000	0589.8	139.2	53.19	
011.0	000.7158	0078.6	014.8	245.7	100.0000	0589.9	139.0	53.24	
012.0	000.6869	0080.3	014.8	245.6	100.0000	0589.9	138.8	53.29	
013.0	000.6586	0082.0	014.8	245.6	100.0000	0590.0	138.6	53.35	
014.0	000.6308	0083.1	014.7	245.5	100.0000	0590.0	138.4	53.39	
015.0	000.6037	0082.6	014.5	245.4	100.0000	0590.1	138.4	53.41	
016.0	000.5772	0082.0	014.3	245.2	100.0000	0590.2	138.3	53.42	
017.0	000.5512	0082.3	014.2	245.1	100.0000	0590.3	138.2	53.44	
018.0	000.5259	0084.4	014.2	245.0	100.0000	0590.4	138.0	53.49	
019.0	000.5011	0086.8	014.2	245.0	100.0000	0590.4	137.8	53.55	
020.0	000.4770	0088.6	014.2	244.9	100.0000	0590.5	137.7	53.59	
021.0	000.4581	0089.2	014.1	244.8	100.0000	0590.5	137.6	53.61	
022.0	000.4396	0088.9	013.9	244.7	100.0000	0590.6	137.5	53.63	
023.0	000.4215	0088.3	013.7	244.5	100.0000	0590.7	137.5	53.63	
024.0	000.4037	0088.1	013.6	244.4	100.0000	0590.8	137.5	53.64	
025.0	000.3864	0089.0	013.5	244.3	100.0000	0590.9	137.4	53.66	
026.0	000.3694	0090.5	013.5	244.2	100.0000	0590.9	137.3	53.70	
027.0	000.3528	0092.2	013.4	244.2	100.0000	0591.0	137.2	53.73	
028.0	000.3366	0094.1	013.4	244.1	100.0000	0591.0	137.1	53.76	
029.0	000.3207	0096.3	013.4	244.0	100.0000	0591.1	136.9	53.79	
030.0	000.3053	0098.3	013.4	243.9	100.0000	0591.2	136.8	53.82	
031.0	000.2977	0099.5	013.4	243.8	100.0000	0591.2	136.7	53.86	
032.0	000.2902	0099.7	013.3	243.7	100.0000	0591.3	136.6	53.87	
033.0	000.2828	0099.1	013.2	243.6	100.0000	0591.3	136.6	53.88	
034.0	000.2755	0097.9	013.0	243.5	100.0000	0591.4	136.7	53.87	
035.0	000.2683	0096.6	012.9	243.4	100.0000	0591.4	136.7	53.86	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
036.0	000.2612	0095.4	012.7	243.3	100.0000	0591.5	136.7	53.85
037.0	000.2542	0094.2	012.5	243.2	100.0000	0591.5	136.8	53.84
038.0	000.2473	0093.7	012.4	243.1	100.0000	0591.5	136.8	53.83
039.0	000.2405	0093.6	012.3	243.0	100.0000	0591.5	136.8	53.84
040.0	000.2337	0093.7	012.3	242.9	100.0000	0591.5	136.8	53.84
041.0	000.2271	0093.7	012.2	242.8	100.0000	0591.5	136.8	53.84
042.0	000.2206	0093.9	012.1	242.7	100.0000	0591.5	136.8	53.84
043.0	000.2141	0094.4	012.0	242.6	100.0000	0591.4	136.8	53.84
044.0	000.2078	0094.8	012.0	242.5	100.0000	0591.4	136.7	53.84
045.0	000.2015	0094.9	011.9	242.4	100.0000	0591.4	136.8	53.84
046.0	000.1954	0094.9	011.8	242.3	100.0000	0591.3	136.8	53.83
047.0	000.1893	0094.8	011.7	242.2	100.0000	0591.3	136.8	53.82
048.0	000.1834	0094.7	011.6	242.1	100.0000	0591.2	136.9	53.81
049.0	000.1775	0094.5	011.5	242.0	100.0000	0591.1	136.9	53.79
050.0	000.1717	0094.5	011.4	241.9	100.0000	0591.1	137.0	53.78
051.0	000.1717	0094.6	011.4	241.8	100.0000	0591.0	136.9	53.79
052.0	000.1717	0094.8	011.5	241.8	100.0000	0591.0	136.9	53.80
053.0	000.1717	0094.8	011.5	241.7	100.0000	0590.9	136.9	53.81
054.0	000.1717	0094.9	011.5	241.6	100.0000	0590.8	136.8	53.81
055.0	000.1717	0095.4	011.5	241.5	100.0000	0590.7	136.8	53.83
056.0	000.1717	0096.4	011.5	241.4	100.0000	0590.7	136.7	53.85
057.0	000.1717	0097.5	011.6	241.4	100.0000	0590.6	136.6	53.86
058.0	000.1717	0098.1	011.6	241.3	100.0000	0590.5	136.6	53.88
059.0	000.1717	0098.5	011.7	241.2	100.0000	0590.5	136.6	53.88
060.0	000.1717	0098.9	011.7	241.1	100.0000	0590.4	136.5	53.89
061.0	000.1717	0099.6	011.7	241.0	100.0000	0590.3	136.5	53.90
062.0	000.1717	0100.4	011.8	240.9	100.0000	0590.2	136.4	53.91
063.0	000.1717	0101.0	011.8	240.8	100.0000	0590.1	136.4	53.91
064.0	000.1717	0101.3	011.8	240.8	100.0000	0590.0	136.4	53.91
065.0	000.1717	0102.0	011.9	240.7	100.0000	0590.0	136.4	53.92
066.0	000.1717	0102.8	011.9	240.6	100.0000	0589.9	136.4	53.92
067.0	000.1717	0103.9	012.0	240.5	100.0000	0589.8	136.3	53.93
068.0	000.1717	0104.9	012.0	240.4	100.0000	0589.7	136.3	53.93
069.0	000.1717	0105.5	012.0	240.3	100.0000	0589.6	136.3	53.93
070.0	000.1717	0105.5	012.1	240.2	100.0000	0589.6	136.4	53.92
071.0	000.1775	0105.0	012.1	240.1	100.0000	0589.5	136.3	53.93
072.0	000.1834	0104.2	012.2	240.0	100.0000	0589.4	136.3	53.93
073.0	000.1893	0103.1	012.2	239.9	100.0000	0589.4	136.3	53.92
074.0	000.1954	0101.9	012.2	239.9	100.0000	0589.3	136.4	53.92
075.0	000.2015	0101.0	012.3	239.8	100.0000	0589.3	136.4	53.91
076.0	000.2078	0100.4	012.3	239.7	100.0000	0589.2	136.4	53.91
077.0	000.2141	0100.3	012.4	239.6	100.0000	0589.2	136.4	53.91
078.0	000.2206	0100.4	012.5	239.5	100.0000	0589.1	136.4	53.91
079.0	000.2271	0100.7	012.6	239.4	100.0000	0589.1	136.3	53.92
080.0	000.2337	0100.7	012.7	239.3	100.0000	0589.1	136.3	53.92
081.0	000.2405	0101.2	012.8	239.2	100.0000	0589.1	136.3	53.93
082.0	000.2473	0102.0	013.0	239.1	100.0000	0589.1	136.3	53.94
083.0	000.2542	0102.8	013.1	238.9	100.0000	0589.1	136.2	53.95
084.0	000.2612	0103.1	013.2	238.8	100.0000	0589.2	136.2	53.95
085.0	000.2683	0102.7	013.3	238.7	100.0000	0589.2	136.3	53.94
086.0	000.2755	0102.1	013.3	238.6	100.0000	0589.2	136.4	53.92

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
087.0	000.2828	0101.4	013.4	238.6	100.0000	0589.3	136.4	53.90
088.0	000.2902	0101.4	013.4	238.5	100.0000	0589.3	136.5	53.89
089.0	000.2977	0101.3	013.5	238.3	100.0000	0589.4	136.5	53.88
090.0	000.3053	0101.3	013.6	238.2	100.0000	0589.4	136.6	53.86
091.0	000.3207	0101.2	013.8	238.1	100.0000	0589.5	136.6	53.87
092.0	000.3366	0101.3	013.9	238.0	100.0000	0589.6	136.6	53.87
093.0	000.3528	0101.4	014.1	237.9	100.0000	0589.7	136.6	53.87
094.0	000.3694	0101.4	014.3	237.7	100.0000	0589.8	136.6	53.87
095.0	000.3864	0101.2	014.4	237.6	100.0000	0589.9	136.6	53.86
096.0	000.4037	0100.6	014.5	237.5	100.0000	0590.0	136.7	53.84
097.0	000.4215	0100.1	014.7	237.4	100.0000	0590.1	136.7	53.83
098.0	000.4396	0099.7	014.8	237.3	100.0000	0590.2	136.8	53.81
099.0	000.4581	0099.3	014.9	237.2	100.0000	0590.3	136.9	53.79
100.0	000.4770	0099.2	015.1	237.0	100.0000	0590.4	137.0	53.78
101.0	000.5011	0099.5	015.3	236.9	100.0000	0590.6	137.0	53.77
102.0	000.5259	0099.9	015.6	236.7	100.0000	0590.7	137.0	53.77
103.0	000.5512	0100.2	015.8	236.6	100.0000	0590.9	137.0	53.76
104.0	000.5772	0100.5	016.0	236.4	100.0000	0591.0	137.1	53.75
105.0	000.6037	0101.2	016.3	236.3	100.0000	0591.2	137.1	53.75
106.0	000.6308	0102.4	016.6	236.1	100.0000	0591.4	137.1	53.74
107.0	000.6586	0103.8	017.0	235.9	100.0000	0591.6	137.1	53.74
108.0	000.6869	0105.3	017.3	235.7	100.0000	0591.8	137.2	53.74
109.0	000.7158	0106.9	017.7	235.5	100.0000	0592.0	137.2	53.73
110.0	000.7453	0108.4	018.0	235.3	100.0000	0592.1	137.3	53.71
111.0	000.7836	0110.0	018.4	235.1	100.0000	0592.3	137.3	53.70
112.0	000.8228	0110.8	018.7	235.0	100.0000	0592.5	137.4	53.68
113.0	000.8629	0110.8	018.9	234.8	100.0000	0592.6	137.6	53.64
114.0	000.9040	0110.4	019.1	234.7	100.0000	0592.7	137.8	53.59
115.0	000.9461	0109.8	019.3	234.5	100.0000	0592.8	138.0	53.54
116.0	000.9891	0109.0	019.4	234.4	100.0000	0592.8	138.2	53.48
117.0	001.0331	0107.9	019.5	234.3	100.0000	0592.9	138.5	53.42
118.0	001.0780	0107.3	019.7	234.2	100.0000	0593.0	138.7	53.35
119.0	001.1239	0107.1	019.9	234.1	100.0000	0593.1	138.9	53.29

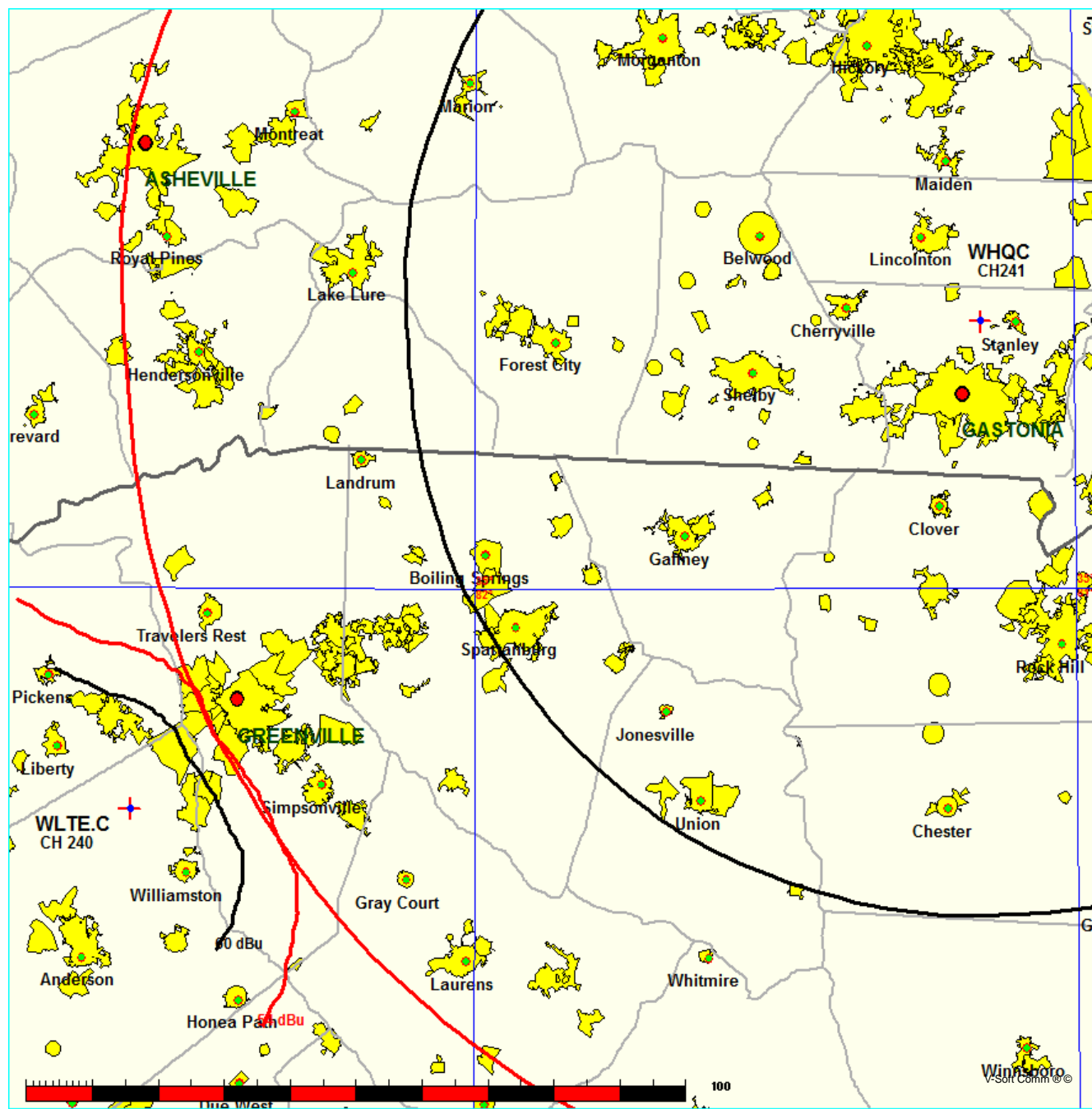


## E-5 WLTE(FM).CP Interference Plot to WHQC(FM) 241C.CP

FMCommander Single Allocation Study - 11-24-2013 - FCC NGDC 30 Sec  
WLTE.C's Overlaps (In= 0.0 km, Out= 0.0 km)

WLTE.C CH 240 A DA  
Lat= 34 42 33.0, Lng= 82 34 29.0  
5.3 kW 100 M HAAT, 362 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WHQC-C CH 241 C DA BPH20101122ABH  
Lat= 35 21 44.0, Lng= 81 09 19.0  
100.0 kW 533 M HAAT, 767.6 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

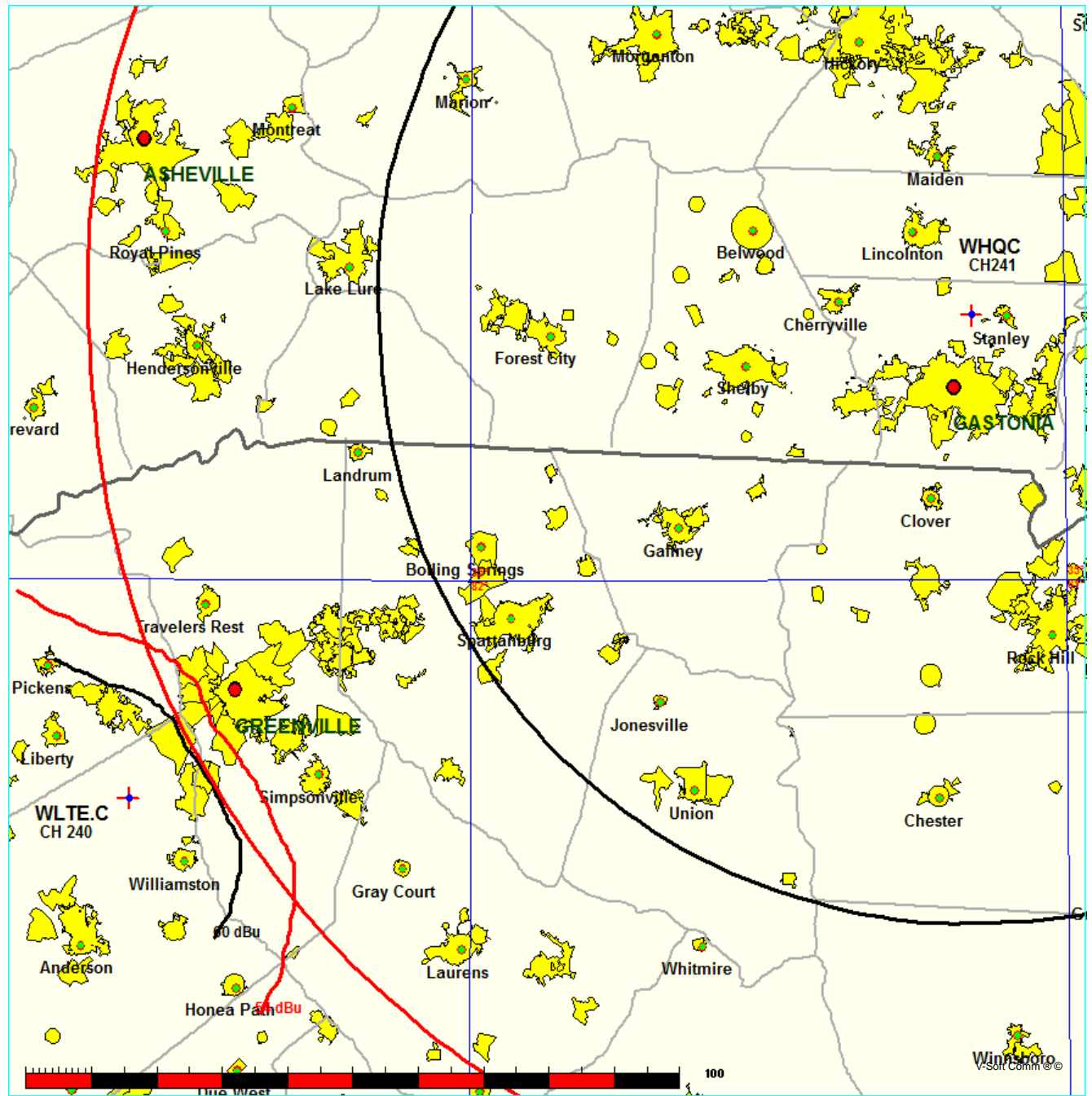


## E-6 WLTE(FM).CP Interference Plot to WHQC(FM).CP at Max. Class

FMCommander Single Allocation Study - 11-24-2013 - FCC NGDC 30 Sec  
WLTE.C's Overlaps (In= 0.27 km, Out= 39.65 km)

WLTE.C CH 240 A DA  
Lat= 34 42 33.0, Lng= 82 34 29.0  
5.3 kW 100 M HAAT, 362 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WHQC-C^ CH 241 C DA BPH20101122ABH  
Lat= 35 21 44.0, Lng= 81 09 19.0  
Max CIs: 100.0 kW 600 M HAAT, 834.6 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



# E-7 WLTE(FM).CP FMOver Analysis to WHQC(FM).CP at Max. Class

Terrain Data: FCC NGDC 30 Sec

Channel = 240A

Max ERP = 5.3 kW

RCAMSL = 362 M

N. Lat. 34 42 33.0

W. Lng. 82 34 29.0

Protected

60 dBu

WHQC BPH20101122ABH

(^ Max Class Parameters)

Channel = 241C

Max ERP = 100 kW

RCAMSL = 834.6 M

N. Lat. 35 21 44.0

W. Lng. 81 09 19.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
000.0	001.1708	0069.1	015.8	246.7	100.0000	0587.6	141.1	52.68	
001.0	001.1239	0070.2	015.7	246.6	100.0000	0587.7	140.8	52.74	
002.0	001.0780	0071.3	015.7	246.5	100.0000	0587.8	140.6	52.80	
003.0	001.0331	0072.1	015.6	246.4	100.0000	0587.8	140.4	52.85	
004.0	000.9891	0072.9	015.5	246.3	100.0000	0587.9	140.2	52.90	
005.0	000.9461	0074.1	015.4	246.3	100.0000	0588.0	140.0	52.96	
006.0	000.9040	0075.1	015.4	246.2	100.0000	0588.1	139.8	53.01	
007.0	000.8629	0076.2	015.3	246.1	100.0000	0588.2	139.6	53.06	
008.0	000.8228	0077.3	015.2	246.0	100.0000	0588.2	139.4	53.11	
009.0	000.7836	0077.4	015.0	245.9	100.0000	0588.3	139.3	53.14	
010.0	000.7453	0077.8	014.9	245.8	100.0000	0588.4	139.2	53.17	
011.0	000.7158	0078.6	014.8	245.7	100.0000	0588.5	139.0	53.22	
012.0	000.6869	0080.3	014.8	245.6	100.0000	0588.5	138.8	53.27	
013.0	000.6586	0082.0	014.8	245.6	100.0000	0588.6	138.6	53.33	
014.0	000.6308	0083.1	014.7	245.5	100.0000	0588.6	138.4	53.37	
015.0	000.6037	0082.6	014.5	245.4	100.0000	0588.7	138.4	53.39	
016.0	000.5772	0082.0	014.3	245.2	100.0000	0588.8	138.3	53.40	
017.0	000.5512	0082.3	014.2	245.1	100.0000	0588.9	138.2	53.43	
018.0	000.5259	0084.4	014.2	245.0	100.0000	0589.0	138.0	53.48	
019.0	000.5011	0086.8	014.2	245.0	100.0000	0589.0	137.8	53.53	
020.0	000.4770	0088.6	014.2	244.9	100.0000	0589.1	137.7	53.57	
021.0	000.4581	0089.2	014.1	244.8	100.0000	0589.1	137.6	53.60	
022.0	000.4396	0088.9	013.9	244.7	100.0000	0589.2	137.5	53.61	
023.0	000.4215	0088.3	013.7	244.5	100.0000	0589.3	137.5	53.61	
024.0	000.4037	0088.1	013.6	244.4	100.0000	0589.4	137.5	53.62	
025.0	000.3864	0089.0	013.5	244.3	100.0000	0589.5	137.4	53.65	
026.0	000.3694	0090.5	013.5	244.2	100.0000	0589.5	137.3	53.68	
027.0	000.3528	0092.2	013.4	244.2	100.0000	0589.6	137.2	53.71	
028.0	000.3366	0094.1	013.4	244.1	100.0000	0589.6	137.1	53.74	
029.0	000.3207	0096.3	013.4	244.0	100.0000	0589.7	136.9	53.78	
030.0	000.3053	0098.3	013.4	243.9	100.0000	0589.8	136.8	53.81	
031.0	000.2977	0099.5	013.4	243.8	100.0000	0589.8	136.7	53.84	
032.0	000.2902	0099.7	013.3	243.7	100.0000	0589.9	136.6	53.86	
033.0	000.2828	0099.1	013.2	243.6	100.0000	0589.9	136.6	53.86	
034.0	000.2755	0097.9	013.0	243.5	100.0000	0590.0	136.7	53.85	
035.0	000.2683	0096.6	012.9	243.4	100.0000	0590.0	136.7	53.84	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
036.0	000.2612	0095.4	012.7	243.3	100.0000	0590.1	136.7	53.83
037.0	000.2542	0094.2	012.5	243.2	100.0000	0590.1	136.8	53.82
038.0	000.2473	0093.7	012.4	243.1	100.0000	0590.1	136.8	53.81
039.0	000.2405	0093.6	012.3	243.0	100.0000	0590.1	136.8	53.82
040.0	000.2337	0093.7	012.3	242.9	100.0000	0590.1	136.8	53.82
041.0	000.2271	0093.7	012.2	242.8	100.0000	0590.1	136.8	53.82
042.0	000.2206	0093.9	012.1	242.7	100.0000	0590.1	136.8	53.82
043.0	000.2141	0094.4	012.0	242.6	100.0000	0590.0	136.8	53.82
044.0	000.2078	0094.8	012.0	242.5	100.0000	0590.0	136.7	53.83
045.0	000.2015	0094.9	011.9	242.4	100.0000	0590.0	136.8	53.82
046.0	000.1954	0094.9	011.8	242.3	100.0000	0589.9	136.8	53.81
047.0	000.1893	0094.8	011.7	242.2	100.0000	0589.9	136.8	53.80
048.0	000.1834	0094.7	011.6	242.1	100.0000	0589.8	136.9	53.79
049.0	000.1775	0094.5	011.5	242.0	100.0000	0589.7	136.9	53.77
050.0	000.1717	0094.5	011.4	241.9	100.0000	0589.7	137.0	53.76
051.0	000.1717	0094.6	011.4	241.8	100.0000	0589.6	136.9	53.77
052.0	000.1717	0094.8	011.5	241.8	100.0000	0589.6	136.9	53.78
053.0	000.1717	0094.8	011.5	241.7	100.0000	0589.5	136.9	53.79
054.0	000.1717	0094.9	011.5	241.6	100.0000	0589.4	136.8	53.80
055.0	000.1717	0095.4	011.5	241.5	100.0000	0589.3	136.8	53.81
056.0	000.1717	0096.4	011.5	241.4	100.0000	0589.3	136.7	53.83
057.0	000.1717	0097.5	011.6	241.4	100.0000	0589.2	136.6	53.85
058.0	000.1717	0098.1	011.6	241.3	100.0000	0589.1	136.6	53.86
059.0	000.1717	0098.5	011.7	241.2	100.0000	0589.1	136.6	53.86
060.0	000.1717	0098.9	011.7	241.1	100.0000	0589.0	136.5	53.87
061.0	000.1717	0099.6	011.7	241.0	100.0000	0588.9	136.5	53.88
062.0	000.1717	0100.4	011.8	240.9	100.0000	0588.8	136.4	53.89
063.0	000.1717	0101.0	011.8	240.8	100.0000	0588.7	136.4	53.89
064.0	000.1717	0101.3	011.8	240.8	100.0000	0588.6	136.4	53.89
065.0	000.1717	0102.0	011.9	240.7	100.0000	0588.6	136.4	53.90
066.0	000.1717	0102.8	011.9	240.6	100.0000	0588.5	136.4	53.90
067.0	000.1717	0103.9	012.0	240.5	100.0000	0588.4	136.3	53.91
068.0	000.1717	0104.9	012.0	240.4	100.0000	0588.3	136.3	53.92
069.0	000.1717	0105.5	012.0	240.3	100.0000	0588.2	136.3	53.91
070.0	000.1717	0105.5	012.1	240.2	100.0000	0588.2	136.4	53.90
071.0	000.1775	0105.0	012.1	240.1	100.0000	0588.1	136.3	53.91
072.0	000.1834	0104.2	012.2	240.0	100.0000	0588.0	136.3	53.91
073.0	000.1893	0103.1	012.2	239.9	100.0000	0588.0	136.3	53.91
074.0	000.1954	0101.9	012.2	239.9	100.0000	0587.9	136.4	53.90
075.0	000.2015	0101.0	012.3	239.8	100.0000	0587.9	136.4	53.89
076.0	000.2078	0100.4	012.3	239.7	100.0000	0587.8	136.4	53.89
077.0	000.2141	0100.3	012.4	239.6	100.0000	0587.8	136.4	53.89
078.0	000.2206	0100.4	012.5	239.5	100.0000	0587.7	136.4	53.90
079.0	000.2271	0100.7	012.6	239.4	100.0000	0587.7	136.3	53.90
080.0	000.2337	0100.7	012.7	239.3	100.0000	0587.7	136.3	53.91
081.0	000.2405	0101.2	012.8	239.2	100.0000	0587.7	136.3	53.91
082.0	000.2473	0102.0	013.0	239.1	100.0000	0587.7	136.3	53.92
083.0	000.2542	0102.8	013.1	238.9	100.0000	0587.7	136.2	53.93
084.0	000.2612	0103.1	013.2	238.8	100.0000	0587.8	136.2	53.93
085.0	000.2683	0102.7	013.3	238.7	100.0000	0587.8	136.3	53.92
086.0	000.2755	0102.1	013.3	238.6	100.0000	0587.8	136.4	53.90

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
087.0	000.2828	0101.4	013.4	238.6	100.0000	0587.9	136.4	53.88
088.0	000.2902	0101.4	013.4	238.5	100.0000	0587.9	136.5	53.87
089.0	000.2977	0101.3	013.5	238.3	100.0000	0588.0	136.5	53.86
090.0	000.3053	0101.3	013.6	238.2	100.0000	0588.0	136.6	53.84
091.0	000.3207	0101.2	013.8	238.1	100.0000	0588.1	136.6	53.85
092.0	000.3366	0101.3	013.9	238.0	100.0000	0588.2	136.6	53.85
093.0	000.3528	0101.4	014.1	237.9	100.0000	0588.3	136.6	53.85
094.0	000.3694	0101.4	014.3	237.7	100.0000	0588.4	136.6	53.85
095.0	000.3864	0101.2	014.4	237.6	100.0000	0588.5	136.6	53.84
096.0	000.4037	0100.6	014.5	237.5	100.0000	0588.6	136.7	53.83
097.0	000.4215	0100.1	014.7	237.4	100.0000	0588.7	136.7	53.81
098.0	000.4396	0099.7	014.8	237.3	100.0000	0588.8	136.8	53.79
099.0	000.4581	0099.3	014.9	237.2	100.0000	0588.9	136.9	53.78
100.0	000.4770	0099.2	015.1	237.0	100.0000	0589.0	137.0	53.76
101.0	000.5011	0099.5	015.3	236.9	100.0000	0589.2	137.0	53.76
102.0	000.5259	0099.9	015.6	236.7	100.0000	0589.3	137.0	53.75
103.0	000.5512	0100.2	015.8	236.6	100.0000	0589.5	137.0	53.74
104.0	000.5772	0100.5	016.0	236.4	100.0000	0589.6	137.1	53.73
105.0	000.6037	0101.2	016.3	236.3	100.0000	0589.8	137.1	53.73
106.0	000.6308	0102.4	016.6	236.1	100.0000	0590.0	137.1	53.73
107.0	000.6586	0103.8	017.0	235.9	100.0000	0590.2	137.1	53.72
108.0	000.6869	0105.3	017.3	235.7	100.0000	0590.4	137.2	53.72
109.0	000.7158	0106.9	017.7	235.5	100.0000	0590.6	137.2	53.71
110.0	000.7453	0108.4	018.0	235.3	100.0000	0590.7	137.3	53.70
111.0	000.7836	0110.0	018.4	235.1	100.0000	0590.9	137.3	53.69
112.0	000.8228	0110.8	018.7	235.0	100.0000	0591.1	137.4	53.66
113.0	000.8629	0110.8	018.9	234.8	100.0000	0591.2	137.6	53.62
114.0	000.9040	0110.4	019.1	234.7	100.0000	0591.3	137.8	53.57
115.0	000.9461	0109.8	019.3	234.5	100.0000	0591.4	138.0	53.52
116.0	000.9891	0109.0	019.4	234.4	100.0000	0591.4	138.2	53.46
117.0	001.0331	0107.9	019.5	234.3	100.0000	0591.5	138.5	53.40
118.0	001.0780	0107.3	019.7	234.2	100.0000	0591.6	138.7	53.34
119.0	001.1239	0107.1	019.9	234.1	100.0000	0591.7	138.9	53.28

## E-8 WLTE(FM) HAAT Calculation

N. Lat. = 344233.0    W. Lng. = 823429.0  
HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	60-F5
000	292.9	69.1	1.1708	15.78
045	267.1	94.9	0.2015	11.91
090	260.7	101.3	0.3053	13.60
135	263.2	98.8	2.3438	22.76
180	237.3	124.7	5.3000	30.33
225	242.9	119.1	5.3000	29.77
270	256.1	105.9	5.3000	28.26
315	279.7	82.3	5.3000	25.10

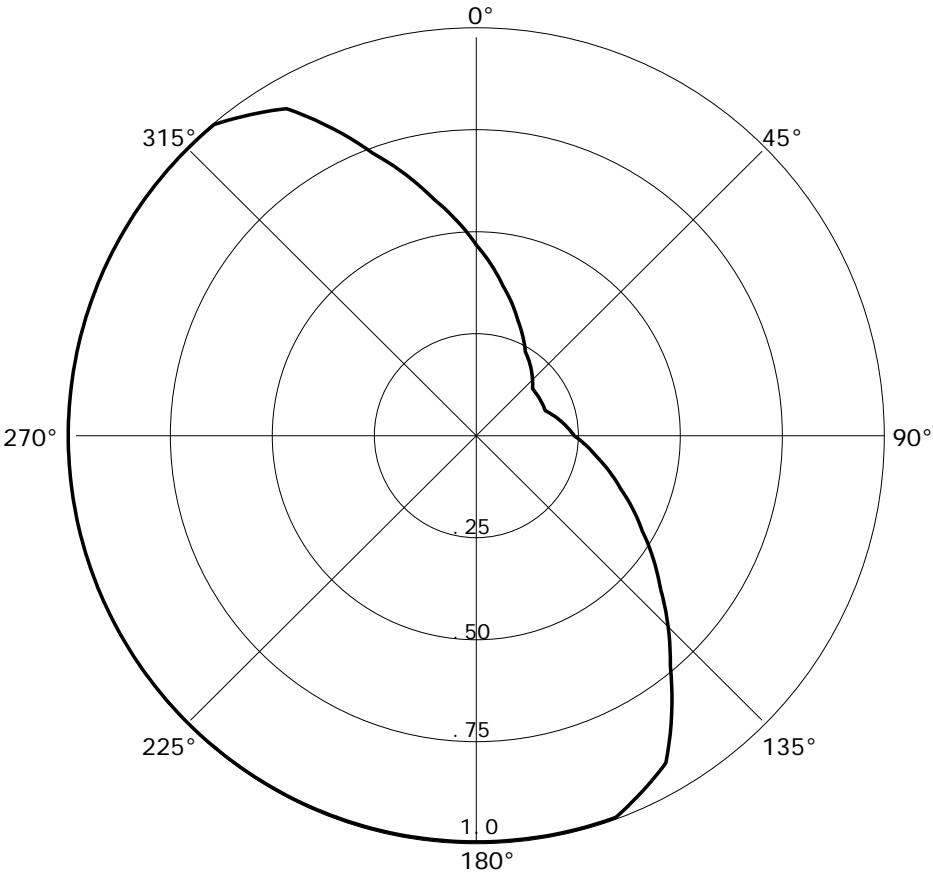
Ave El= 262.49 M    HAAT= 99.51 M    AMSL= 362

E-9 WLTE(FM).CP Antenna Pattern

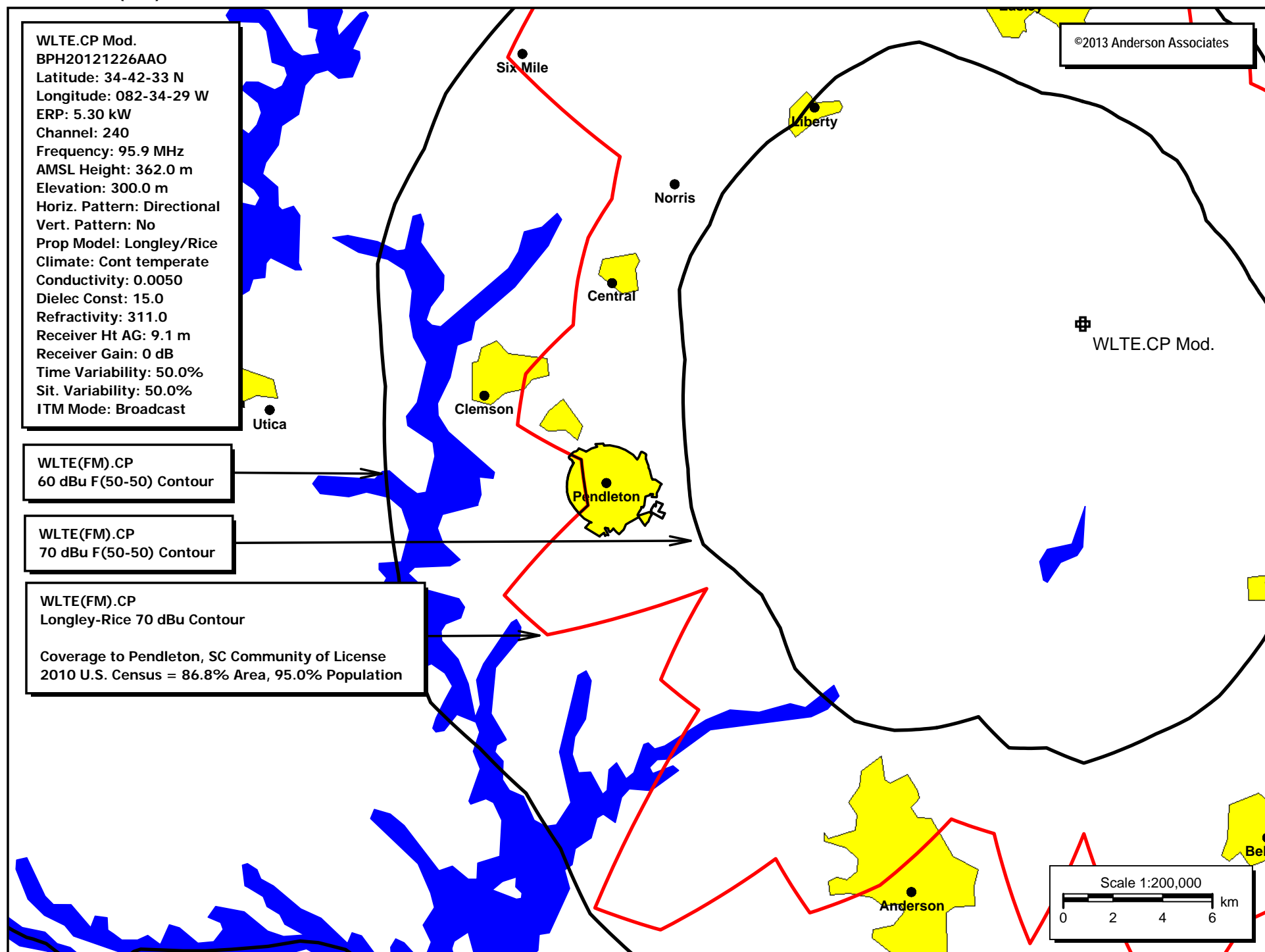
RMS(V)= .776

Graph is Relative Field

Azi	Field	dBk	kW
000	0.470	00.685	1.171
010	0.375	-01.277	0.745
020	0.300	-03.215	0.477
030	0.240	-05.153	0.305
040	0.210	-06.313	0.234
050	0.180	-07.652	0.172
060	0.180	-07.652	0.172
070	0.180	-07.652	0.172
080	0.210	-06.313	0.234
090	0.240	-05.153	0.305
100	0.300	-03.215	0.477
110	0.375	-01.277	0.745
120	0.470	00.685	1.171
130	0.590	02.660	1.845
140	0.740	04.627	2.902
150	0.930	06.612	4.584
160	1.000	07.243	5.300
170	1.000	07.243	5.300
180	1.000	07.243	5.300
190	1.000	07.243	5.300
200	1.000	07.243	5.300
210	1.000	07.243	5.300
220	1.000	07.243	5.300
230	1.000	07.243	5.300
240	1.000	07.243	5.300
250	1.000	07.243	5.300
260	1.000	07.243	5.300
270	1.000	07.243	5.300
280	1.000	07.243	5.300
290	1.000	07.243	5.300
300	1.000	07.243	5.300
310	1.000	07.243	5.300
320	1.000	07.243	5.300
330	0.930	06.612	4.584
340	0.740	04.627	2.902
350	0.590	02.660	1.845

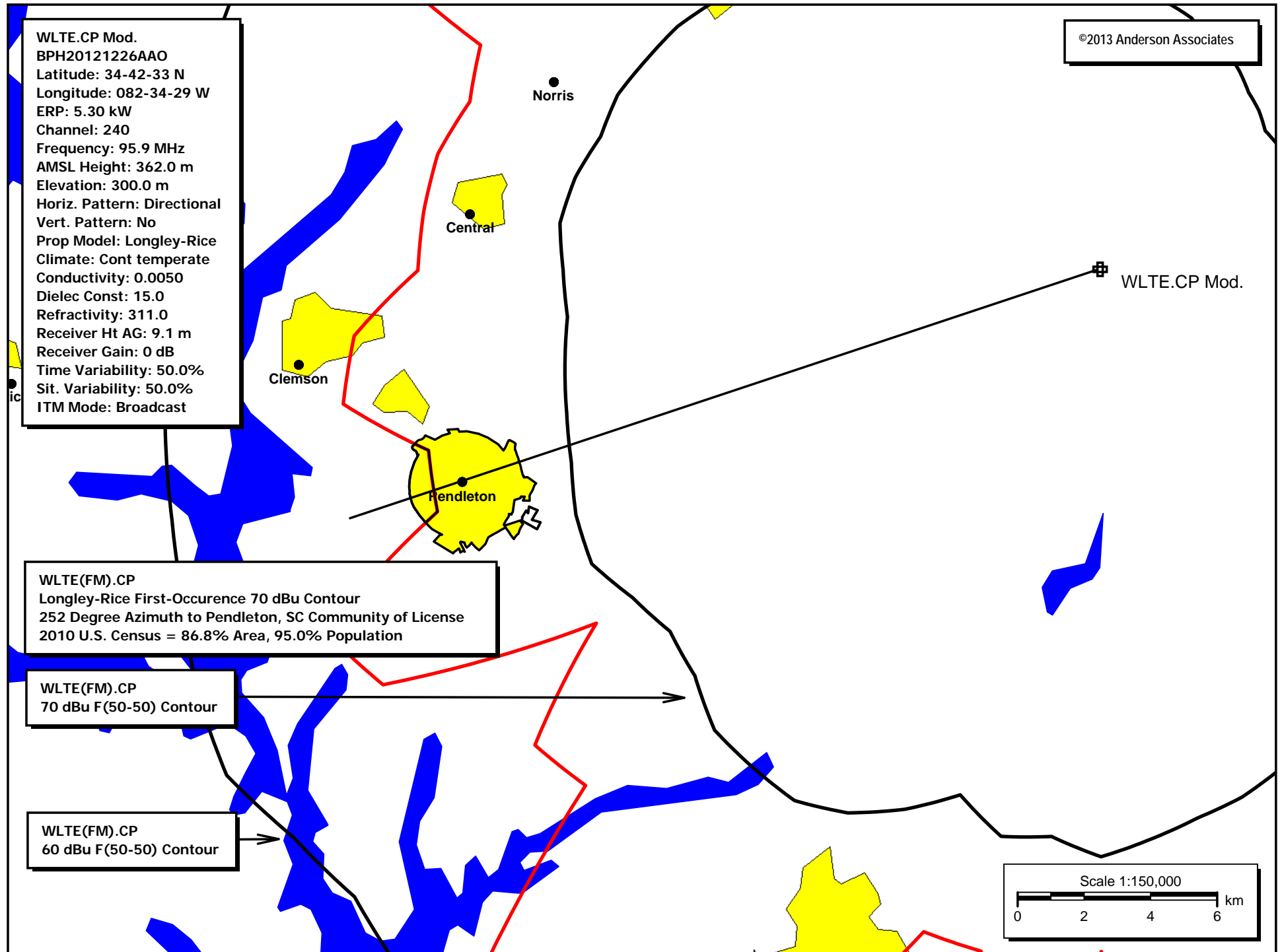


# E-10 WLTE(FM).CP Contour Plot





# E-11 WLTE(FM) Enhanced Contour Plot



## E-12 WLTE(FM) Distance to Contour

Primary Terrain: FCC 30 Second US Database

Call Letters: WLTE.CP Mod.  
File Number: BPH20121226AAO  
Latitude: 34-42-33 N  
Longitude: 082-34-29 W  
ERP: 5.30 kW  
Channel: 240  
Frequency: 95.9 MHz  
AMSL Height: 362.0 m  
Elevation: 300.0 m

Azimuth(deg)	60 dBu(km)	70 dBu(km)	L-R 70 dBu(km)	L-R Percent to FCC 70 dBu
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245.0	29.97	17.39	25.70	47.8
246.0	29.84	17.30	24.80	43.4
247.0	29.71	17.20	23.90	39.0
248.0	29.58	17.11	23.00	34.4
249.0	29.45	17.01	22.10	30.0
250.0	29.31	16.92	21.20	25.3
251.0	29.23	16.85	21.14	25.5
252.0	29.14	16.79	21.08	25.6
253.0	29.06	16.73	21.02	25.6
254.0	28.97	16.66	20.96	25.8
255.0	28.89	16.60	20.90	25.9
256.0	28.81	16.55	21.34	28.9
257.0	28.74	16.49	21.78	32.1

## E-13 WLTE(FM) Tower ASR

### Registration 1243389

#### Registration Detail

Reg Number	1243389	Status	Constructed
File Number	A0798394	Constructed	10/25/2004
EMI	No	Dismantled	
NEPA	No		

#### Antenna Structure

Structure Type MAST - Mast

#### Location (in NAD83 Coordinates)

Lat/Long	34-42-33.6 N 082-34-28.4 W	Address	FIRE TOWER ROAD
City, State	PIEDMONT , SC		
Zip	29673	County	ANDERSON
Center of AM Array		Position of Tower in Array	

#### Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
299.6	77.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
377.0	76.2

#### Painting and Lighting Specifications

FAA Chapters 4, 8, 12

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

#### FAA Notification

FAA Study	2004-ASO-1971-OE	FAA Issue Date	04/29/2004
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#### Owner & Contact Information

FRN	0003291192	Owner Entity	Limited Liability Company
		Type	

#### Owner

New Cingular Wireless PCS, LLC  
Attention To: FCC GROUP  
2200 N. GREENVILLE AVE., 1W  
RICHARDSON , TX 75082

P: (972)234-7003  
F: (972)301-6893  
E: FCCMW@ATT.COM

#### Contact

Youngblood , Reginald  
Attention To: FCC GROUP  
2200 N. GREENVILLE AVE., 1W  
RICHARDSON , TX 75082

P: (972)234-7003  
F: (972)301-6893  
E: FCCMW@ATT.COM

#### Last Action Status

Status	Constructed	Received	11/25/2012
Purpose	Admin Update	Entered	11/25/2012