

Anderson Associates

Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

Technical Report W59AV Minor Modification

This technical report is submitted for a minor modification to W259AV at Knoxville, TN, FCC file no. BLFT-20080102ABO. An increase in ERP is requested for the translator to serve as a fill-in to rebroadcast the primary WWAM(AM) 1040 kHz facility at Powell, TN, FCC facility I.D. 59693.

W259AV Modification Analysis:

An overlap is included as exhibit E-1 and an interference plot an an FMOVE analysis to WNML as exhibit E-2 demonstrating that the W259AV modification is clear to all facilities and meets the requirements of Section 74.1204 except for the fact that it is within the third adjacent WNOX(FM) 262C protected contour at Oak Ridge, TN, FCC facility I.D. 49923.

As a result, the interference ratio is utilized to determine the interfering contour in accordance with FCC 02-244, paragraph 12. The F(50-50) contour from WNOX(FM) to the W259AV tower site was calculated to be 88.059 dBu (see E1A) using the V-Soft Probe3 software (see E1A). Adding the +40 3rd adjacent F(50-10) dBu interfering contour is 128.059 dBu, or 27.8 meters. When the depression angle of 64.4 degrees, based on the 58 meters mounting height and the F factor of 0.447 for the Shively 6812B antenna are considered the reduced ERP is calculated to be 0.020 kW. This produces a 128 dBu interference contour of 12.5 meters. The elevation pattern is included as E1B.

An aerial photograph of the site is included as E1C. Clearly, a 12.5 meter interference contour will not reach any buildings or major highways. Based on this

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showing that the interfering contour will not reach a populated area, a waiver of Section 74.1204 is requested.

Vertical clearance is also demonstrated below:

Depression Angle (Deg)	F	ERP X F ² kW	123.33 dBu meters	Vertical Clearance to ground meters
64.4	0.447	0.020	12.5	46.7

Antenna System:

W259AV is located on the existing tower, ASR 1000295, at coordinates:

36 00 08N 83 56 41W NAD 27.

The Shively 6812 single bay wavelength nondirectional antenna is mounted at a COR AGL of 58 meters, 463 meters AMSL (151 meter HAAT, 03 second USGS terrain data using 12 radials), and will operate at an ERP of 0.099 kW. The 60 dBu F(50-50) contour overlaps the current W259AV licensed 60 dBu contour and is contained within the primary WWAM(AM) 2.0 mV/m daytime contour and 40 km radius (exhibit E-3).

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 a worst-case vertical (F) factor of 1.00, the resulting RF value of the Shively 6812 single bay antenna at 0.099 kW and 58 meters COR AGL is $2.11 \mu\text{W/cm}^2$ to the ground,

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which is below 5% of the 200 $\mu\text{W}/\text{cm}^2$ maximum permissible for general public exposure requiring consideration.

Conclusion:

It is concluded that the W259AV modification complies with all Commission rules and policies.



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E-1 W259AV Mod. Overlap Study

REFERENCE		CH# 259D - 99.7 MHz, Pwr= 0.099 kW, HAAT= 151.0 M, COR= 463 M 36 00 08.0 N. 83 56 41.0 W. Average Protected F(50-50)= 12.6 km Omni-directional							DISPLAY DATES DATA 03-25-13 SEARCH 03-25-13		
CH CITY	CALL	TYPE STATE	ANT	AZI.	DIST <-- FILE #	LAT. LNG.	Pwr (kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN*	*OUT*
262C Oak Ridge	WNOX	LIC TN	CN	310.4	33.68 130.2 BLH6211	36 11 53.0 84 13 51.0	100.000 610	16.3 1107	99.6 Oak Ridge Fm, Inc.	5.0	-66.6*(1)
259D Knoxville	W259AV	LIC TN	C	0.0	0.00 0.0 BLFT20080102ABO	36 00 08.0 83 56 41.0	0.010 155	20.2 463	6.1 Appalachian Educational Co	-30.9*	-42.6*
260C Old Fort	AL7225	RSV-A NC		120.5	124.92 301.2 RM10197	35 25 32.0 82 45 25.0	100.000 600	137.5 1589	92.5	-26.7*	10.5
260C Old Fort	WKSF	LIC NC	C	120.5	124.92 301.2 BMLH20031105AEC	35 25 32.0 82 45 25.0	53.000 799	136.1 1781	92.8 Capstar Tx Llc	-25.3*	10.5
256A Friendsville	WNML-FM	LIC TN	NCX	192.3	33.05 12.2 BLH20121226AAZ	35 42 42.0 84 01 21.0	6.000 93	3.1 413	32.2 Radio License Holding Cbc,	15.5	0.1(2)
260L1 Farragut	WUCP-LP«	APP TN		238.3	27.04 58.2 BPL20071220ABC	35 52 28.0 84 12 00.0	0.100 30	42.4 311	12.3 Union Cumberland Presbyter	21.0R	6.0M
258A Madisonville	WYGO	LIC TN	NCN	221.1	70.68 40.8 BLH19921218KC	35 31 19.0 84 27 29.0	2.700 149	43.0 454	28.1 Major Broadcasting Corpora	14.4	22.3
258C2 Corbin	WKDP-FM	LIC KY	CN	358.4	105.84 178.4 BLH19891226KE	36 57 14.0 83 58 41.0	25.000 216	79.7 569	53.8 Eubanks Broadcasting, Inc.	14.6	35.8
257A Jefferson City	WNRX	LIC TN	ZCX	76.1	33.56 256.3 BLH20121219ACI	36 04 28.0 83 34 56.0	0.200 199	0.2 533	8.6 Radio License Holding Cbc,	19.8	24.2
259C0 Hendersonville	WWTN	LIC TN	CX	265.7	233.10 84.2 BLH20080428AAL	35 49 03.0 86 31 24.0	100.000 395	184.3 604	81.1 Cumulus Licensing Llc	36.5	110.8

(1) W259AV is already located within the third adjacent WNOX(FM) 262C protected contour at Oak Ridge, TN. The modification will not cause an interfering signal to any potential listeners.

(2) An FMOver analysis in exhibit E-2 demonstrates the W259AV modification will not cause an interference overlap to WNML-FM 256A at Friendsville, TN.

Terrain database is USGS 03 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= East Zone, 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 protected contour.
« = Station meets FCC minimum distance spacing for its class.

W259AV
BLFT20080102ABO
Latitude: 36-00-08 N
Longitude: 083-56-41 W
ERP: 0.02 kW
Channel: 259
Frequency: 99.7 MHz
AMSL Height: 463.0 m
Elevation: 405.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

EXHIBIT E1A

WNOX 88 DBU

W259AV

W259AV INTERFERENCE CONTOUR = $88+40 = 128$ DBU = 27.8 METERS
BASED ON DEPRESSION ANGLE OF 64.4 DEGREES, REDUCED ERP IS
0.020 KW WHICH YIELDS A 128 DBU INTERFERENCE CONTOUR OF 12.5 METERS
WHICH DOES NOT REACH THE GROUND OR ANY BUILDING OR MAJOR HIGHWAY.
SEE AERIAL VIEW IN E1C.

ANDERSON ASSOCIATES

Scale 1:15,000
0 0.2 0.4 0.6 km

E1B

Antenna Mfg.: Shively Labs

Antenna Type: 6812-1

Station: none

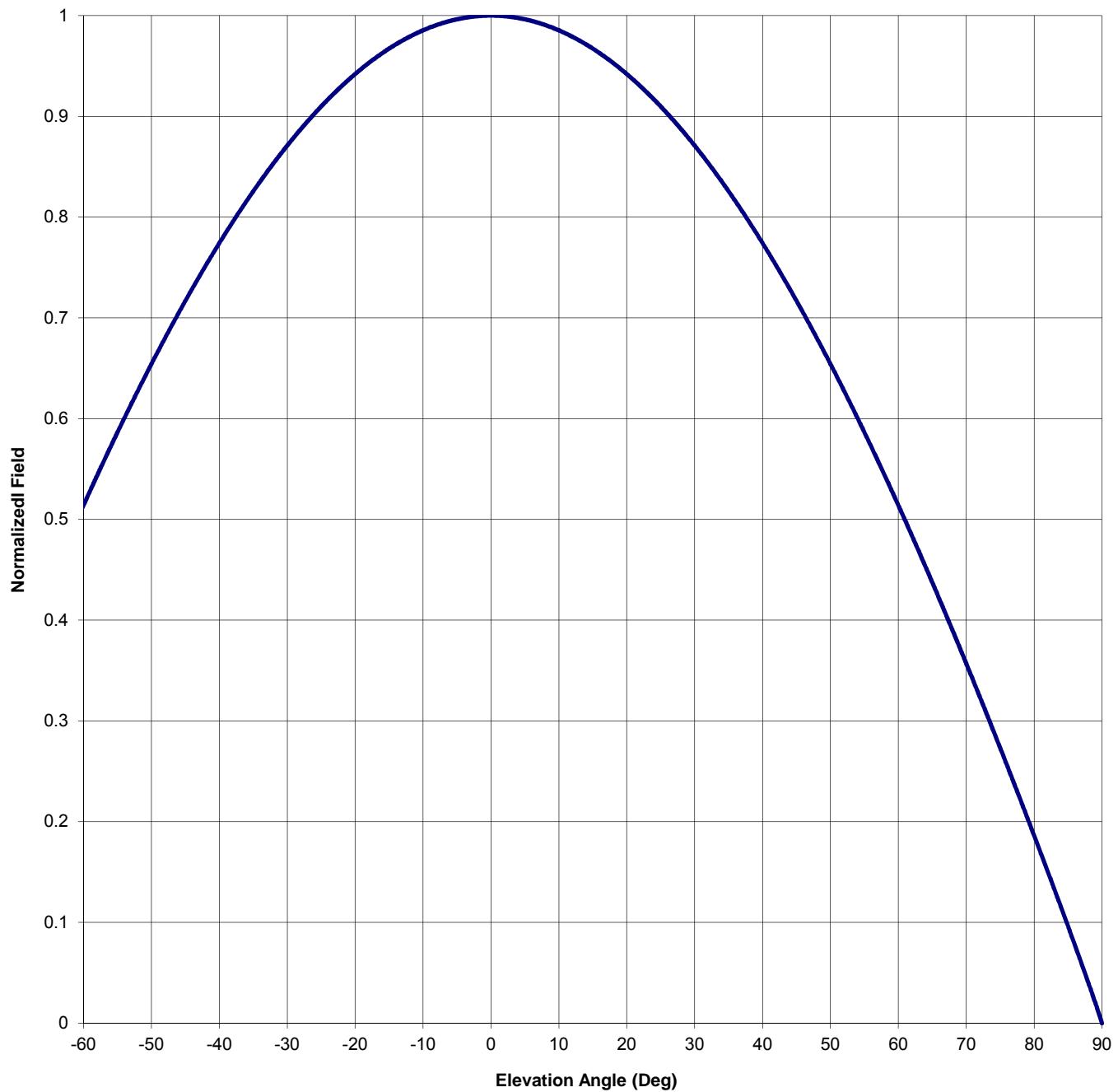
Frequency: 93.1

Channel #: 226

Figure: 3

Date: 11/23/2011

Beam Tilt	0	
Gain (Max)	0.460	-3.369 dB
Gain (Horizon)	0.460	-3.369 dB



Antenna Mfg.: Shively Labs
Antenna Type: 6812-1
Station: none
Frequency: 93.1
Channel #: 226
Figure: 3

Date: 11/23/2011

Beam Tilt	0	
Gain (Max)	0.460	-3.369 dB
Gain (Horizon)	0.460	-3.369 dB

Angle of Depression (Deg)	Relative Field						
-90	0.000	-44	0.729	0	1.000	46	0.705
-89	0.021	-43	0.741	1	1.000	47	0.693
-88	0.040	-42	0.752	2	0.999	48	0.680
-87	0.059	-41	0.763	3	0.999	49	0.667
-86	0.078	-40	0.774	4	0.998	50	0.654
-85	0.096	-39	0.785	5	0.996	51	0.641
-84	0.114	-38	0.796	6	0.995	52	0.628
-83	0.133	-37	0.806	7	0.993	53	0.614
-82	0.151	-36	0.816	8	0.991	54	0.600
-81	0.168	-35	0.826	9	0.988	55	0.586
-80	0.186	-34	0.835	10	0.985	56	0.572
-79	0.204	-33	0.845	11	0.982	57	0.558
-78	0.221	-32	0.854	12	0.979	58	0.544
-77	0.239	-31	0.862	13	0.975	59	0.529
-76	0.256	-30	0.871	14	0.971	60	0.514
-75	0.273	-29	0.879	15	0.967	61	0.499
-74	0.290	-28	0.887	16	0.963	62	0.484
-73	0.307	-27	0.895	17	0.958	63	0.469
-72	0.324	-26	0.903	18	0.953	64	0.453
-71	0.341	-25	0.910	19	0.948	65	0.437
-70	0.357	-24	0.917	20	0.942	66	0.422
-69	0.373	-23	0.924	21	0.936	67	0.406
-68	0.390	-22	0.930	22	0.930	68	0.390
-67	0.406	-21	0.936	23	0.924	69	0.373
-66	0.422	-20	0.942	24	0.917	70	0.357
-65	0.437	-19	0.948	25	0.910	71	0.341
-64	0.453	-18	0.953	26	0.903	72	0.324
-63	0.469	-17	0.958	27	0.895	73	0.307
-62	0.484	-16	0.963	28	0.887	74	0.290
-61	0.499	-15	0.967	29	0.879	75	0.273
-60	0.514	-14	0.971	30	0.871	76	0.256
-59	0.529	-13	0.975	31	0.862	77	0.239
-58	0.544	-12	0.979	32	0.854	78	0.221
-57	0.558	-11	0.982	33	0.845	79	0.204
-56	0.572	-10	0.985	34	0.835	80	0.186
-55	0.586	-9	0.988	35	0.826	81	0.168
-54	0.600	-8	0.991	36	0.816	82	0.151
-53	0.614	-7	0.993	37	0.806	83	0.133
-52	0.628	-6	0.995	38	0.796	84	0.114
-51	0.641	-5	0.996	39	0.785	85	0.096
-50	0.654	-4	0.998	40	0.774	86	0.078
-49	0.667	-3	0.999	41	0.763	87	0.059
-48	0.680	-2	0.999	42	0.752	88	0.040
-47	0.693	-1	1.000	43	0.741	89	0.021
-46	0.705	0	1.000	44	0.729	90	0.000
-45	0.717			45	0.717		

EXHIBIT E1C

AERIAL VIEW OF W250AV INTERFERENCE CONTOUR
THE 12.5 METER CONTOUR ANY BUILDING WILL CLEARLY NOT REACH
OR ROAD FROM ITS 58 METER MOUNTING HEIGHT.



E-2 W259AV Mod. vs. WNML-FM 256A FMOver Analysis

Terrain Data: USGS 03 SEC

WNML-FM BLH20121226AAZ

W259AV

Channel = 256A
 Max ERP = 6 kW
 RCAMSL = 413 M
 N. Lat. 35 42 42.0
 W. Lng. 84 01 21.0
 Protected
 60 dBu

Channel = 259D
 Max ERP = 0.099 kW
 RCAMSL = 463 M
 N. Lat. 36 00 08.0
 W. Lng. 83 56 41.0
 Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
312.0	006.0000	0120.5	030.8	248.7	000.0990	0129.4	032.0	43.53	
313.0	006.0000	0121.7	030.9	249.4	000.0990	0127.8	031.6	43.63	
314.0	006.0000	0122.4	031.0	249.9	000.0990	0127.4	031.1	43.85	
315.0	006.0000	0122.2	031.0	250.3	000.0990	0128.3	030.6	44.17	
316.0	006.0000	0122.1	031.0	250.7	000.0990	0130.0	030.2	44.56	
317.0	006.0000	0121.1	030.8	251.0	000.0990	0131.0	029.6	44.94	
318.0	006.0000	0120.1	030.7	251.2	000.0990	0132.1	029.1	45.32	
319.0	006.0000	0120.3	030.8	251.6	000.0990	0134.1	028.6	45.75	
320.0	006.0000	0118.7	030.6	251.7	000.0990	0134.4	028.0	46.12	
321.0	006.0000	0117.7	030.5	251.9	000.0990	0134.9	027.5	46.49	
322.0	006.0000	0117.9	030.5	252.3	000.0990	0136.2	027.0	46.89	
323.0	006.0000	0117.5	030.5	252.7	000.0990	0136.7	026.5	47.27	
324.0	006.0000	0118.7	030.6	253.3	000.0990	0136.9	026.0	47.58	
325.0	006.0000	0120.2	030.8	254.1	000.0990	0136.2	025.6	47.85	
326.0	006.0000	0120.4	030.8	254.5	000.0990	0135.8	025.1	48.18	
327.0	006.0000	0119.5	030.7	254.7	000.0990	0135.8	024.5	48.55	
328.0	006.0000	0118.8	030.6	254.9	000.0990	0135.8	024.0	48.94	
329.0	006.0000	0119.1	030.6	255.3	000.0990	0136.0	023.5	49.32	
330.0	006.0000	0118.8	030.6	255.6	000.0990	0135.7	023.0	49.69	
331.0	006.0000	0119.7	030.7	256.2	000.0990	0134.2	022.5	49.95	
332.0	006.0000	0123.3	031.1	257.5	000.0990	0132.9	022.1	50.19	
333.0	006.0000	0124.7	031.2	258.3	000.0990	0133.4	021.6	50.59	
334.0	006.0000	0124.9	031.3	258.7	000.0990	0134.1	021.1	51.04	
335.0	006.0000	0124.5	031.2	258.9	000.0990	0134.6	020.5	51.49	
336.0	006.0000	0124.1	031.2	259.2	000.0990	0134.9	020.0	51.94	
337.0	006.0000	0122.5	031.0	259.0	000.0990	0134.8	019.4	52.38	
338.0	006.0000	0121.7	030.9	259.1	000.0990	0134.9	018.9	52.82	
339.0	006.0000	0122.4	031.0	259.6	000.0990	0134.9	018.4	53.24	
340.0	006.0000	0124.0	031.2	260.5	000.0990	0135.8	017.9	53.71	
341.0	006.0000	0127.4	031.5	262.0	000.0990	0138.9	017.4	54.30	
342.0	006.0000	0132.5	032.1	264.2	000.0990	0145.7	017.0	55.10	
343.0	006.0000	0136.8	032.6	266.3	000.0990	0141.7	016.5	55.21	
344.0	006.0000	0138.0	032.7	267.2	000.0990	0138.9	016.0	55.45	
345.0	006.0000	0138.3	032.7	267.8	000.0990	0137.3	015.5	55.81	
346.0	006.0000	0137.2	032.6	267.8	000.0990	0137.3	014.9	56.20	
347.0	006.0000	0136.4	032.5	267.9	000.0990	0137.1	014.3	56.84	
348.0	006.0000	0134.8	032.4	267.6	000.0990	0138.0	013.7	57.62	
349.0	006.0000	0138.4	032.8	269.7	000.0990	0133.1	013.2	57.91	
350.0	006.0000	0140.8	033.0	271.4	000.0990	0133.1	012.7	58.61	
351.0	006.0000	0139.3	032.9	271.1	000.0990	0133.0	012.1	59.46	
352.0	006.0000	0139.0	032.8	271.4	000.0990	0133.1	011.6	60.33	

353.0	006.0000	0137.5	032.7	270.9	000.0990	0133.0	011.0	61.27
354.0	006.0000	0134.7	032.3	269.6	000.0990	0133.3	010.4	62.30
355.0	006.0000	0133.4	032.2	269.0	000.0990	0134.3	009.8	63.39
356.0	006.0000	0133.0	032.1	268.9	000.0990	0134.5	009.2	64.44
357.0	006.0000	0134.4	032.3	270.2	000.0990	0132.9	008.7	65.40
358.0	006.0000	0136.1	032.5	271.7	000.0990	0133.5	008.1	66.55
359.0	006.0000	0137.0	032.6	272.7	000.0990	0134.7	007.6	67.85
000.0	006.0000	0137.4	032.6	273.3	000.0990	0133.9	007.0	69.19
001.0	006.0000	0137.8	032.7	274.1	000.0990	0133.0	006.4	70.63
002.0	006.0000	0138.0	032.7	274.5	000.0990	0133.0	005.9	72.23
003.0	006.0000	0137.5	032.7	274.1	000.0990	0133.0	005.3	73.93
004.0	006.0000	0138.0	032.7	274.8	000.0990	0133.2	004.7	75.70
005.0	006.0000	0139.0	032.8	276.4	000.0990	0135.9	004.2	77.79
006.0	006.0000	0137.0	032.6	272.9	000.0990	0134.7	003.6	79.93
007.0	006.0000	0136.2	032.5	270.5	000.0990	0133.0	003.0	82.26
008.0	006.0000	0136.1	032.5	268.7	000.0990	0134.9	002.5	85.28
009.0	006.0000	0134.8	032.3	261.5	000.0990	0137.9	002.0	88.48
010.0	006.0000	0133.6	032.2	249.9	000.0990	0127.4	001.5	91.36
011.0	006.0000	0132.9	032.1	231.6	000.0990	0165.9	001.1	95.89
012.0	006.0000	0133.3	032.2	202.7	000.0990	0189.5	000.8	98.47
013.0	006.0000	0132.7	032.1	167.6	000.0990	0177.2	001.0	97.08
014.0	006.0000	0132.2	032.1	146.9	000.0990	0177.2	001.4	94.23
015.0	006.0000	0132.6	032.1	133.9	000.0990	0181.9	001.8	90.40
016.0	006.0000	0132.6	032.1	127.1	000.0990	0184.5	002.3	87.67
017.0	006.0000	0131.9	032.0	124.8	000.0990	0187.7	002.9	85.02
018.0	006.0000	0131.5	032.0	122.6	000.0990	0190.4	003.4	82.85
019.0	006.0000	0133.5	032.2	117.4	000.0990	0188.8	003.9	80.95
020.0	006.0000	0135.9	032.5	113.0	000.0990	0184.6	004.4	79.02
021.0	006.0000	0137.1	032.6	111.0	000.0990	0182.2	005.0	77.24
022.0	006.0000	0138.3	032.8	109.6	000.0990	0179.3	005.6	75.48
023.0	006.0000	0139.4	032.9	108.8	000.0990	0178.0	006.1	73.83
024.0	006.0000	0141.1	033.1	107.5	000.0990	0177.8	006.7	72.29
025.0	006.0000	0142.3	033.2	107.0	000.0990	0177.3	007.3	70.84
026.0	006.0000	0141.7	033.1	108.1	000.0990	0178.1	007.9	69.66
027.0	006.0000	0140.4	033.0	109.7	000.0990	0179.5	008.4	68.63
028.0	006.0000	0139.4	032.9	110.9	000.0990	0182.1	009.0	67.71
029.0	006.0000	0139.3	032.9	111.4	000.0990	0182.5	009.6	66.68
030.0	006.0000	0140.0	033.0	111.4	000.0990	0182.5	010.1	65.66
031.0	006.0000	0140.4	033.0	111.7	000.0990	0182.6	010.7	64.68
032.0	006.0000	0139.6	032.9	112.7	000.0990	0184.0	011.3	63.84
033.0	006.0000	0135.0	032.4	115.7	000.0990	0187.5	011.8	63.23
034.0	006.0000	0132.5	032.1	117.4	000.0990	0188.8	012.3	62.49
035.0	006.0000	0135.4	032.4	116.2	000.0990	0188.2	012.9	61.60
036.0	006.0000	0136.7	032.6	116.0	000.0990	0187.9	013.5	60.79
037.0	006.0000	0136.0	032.5	116.7	000.0990	0188.5	014.0	60.11
038.0	006.0000	0134.7	032.3	117.7	000.0990	0189.0	014.5	59.48
039.0	006.0000	0132.2	032.1	119.2	000.0990	0189.2	015.0	59.14
040.0	006.0000	0131.8	032.0	119.7	000.0990	0189.2	015.6	58.68
041.0	006.0000	0129.2	031.7	121.1	000.0990	0191.0	016.1	58.34
042.0	006.0000	0124.3	031.2	123.3	000.0990	0189.5	016.5	57.89
043.0	006.0000	0118.4	030.6	125.7	000.0990	0186.5	017.0	57.38
044.0	006.0000	0115.4	030.2	127.0	000.0990	0184.7	017.5	56.90
045.0	006.0000	0114.8	030.1	127.5	000.0990	0184.2	018.0	56.45
046.0	006.0000	0115.1	030.2	127.6	000.0990	0184.1	018.5	56.01
047.0	006.0000	0115.6	030.2	127.7	000.0990	0184.0	019.0	55.58
048.0	006.0000	0116.0	030.3	127.8	000.0990	0183.9	019.6	55.15
049.0	006.0000	0116.4	030.3	127.9	000.0990	0183.8	020.1	54.72
050.0	006.0000	0117.2	030.4	128.0	000.0990	0183.7	020.6	54.30

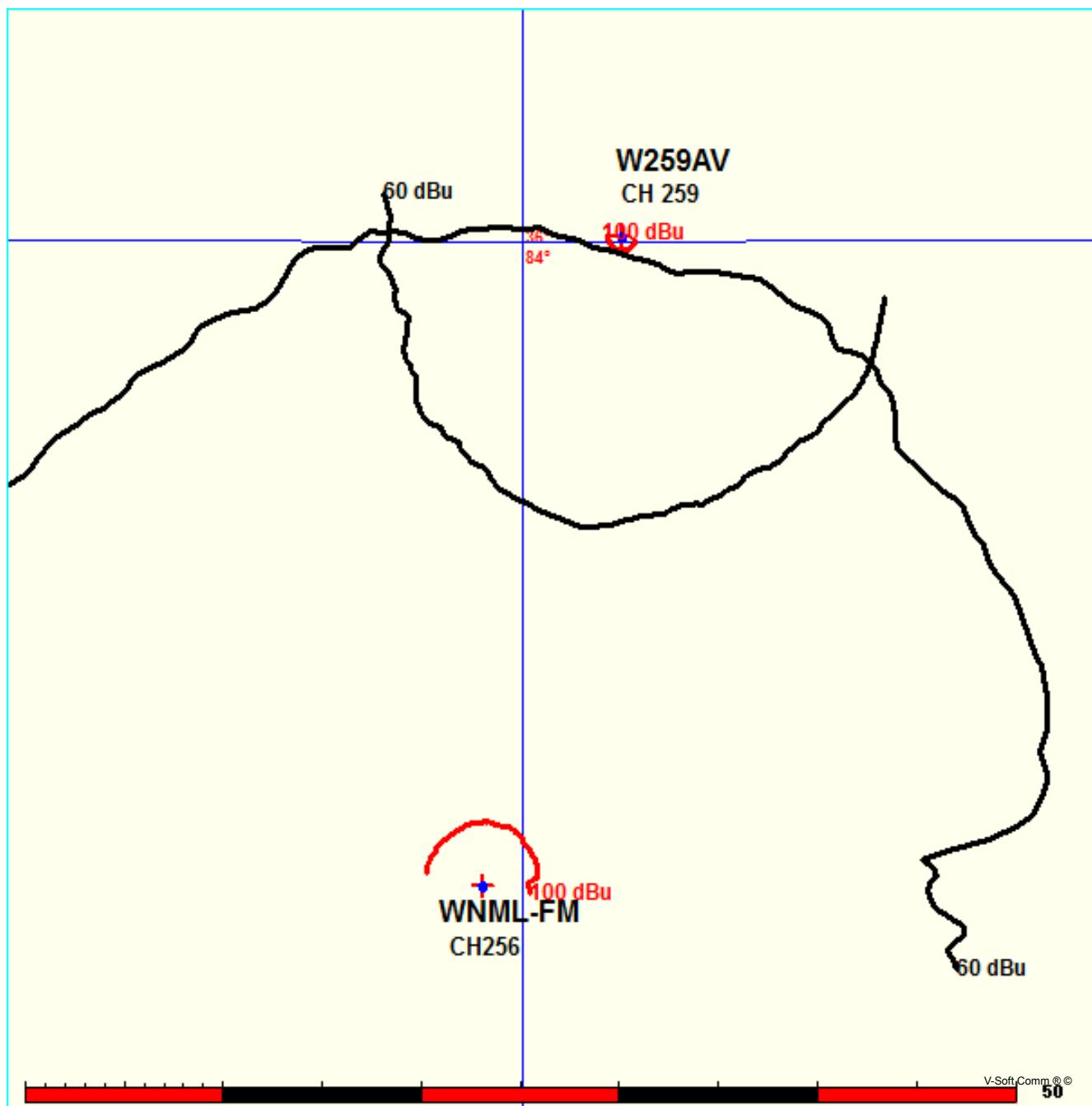
051.0	006.0000	0118.9	030.6	127.8	000.0990	0183.9	021.2	53.87
052.0	006.0000	0119.9	030.7	127.8	000.0990	0183.8	021.7	53.44
053.0	006.0000	0119.0	030.6	128.5	000.0990	0183.6	022.2	53.05
054.0	006.0000	0117.6	030.5	129.2	000.0990	0182.7	022.7	52.65
055.0	006.0000	0117.0	030.4	129.7	000.0990	0181.9	023.2	52.24
056.0	006.0000	0117.5	030.5	129.9	000.0990	0181.5	023.7	51.83
057.0	006.0000	0116.5	030.3	130.5	000.0990	0180.6	024.2	51.44
058.0	006.0000	0115.3	030.2	131.2	000.0990	0180.1	024.7	51.08
059.0	006.0000	0115.2	030.2	131.6	000.0990	0179.9	025.2	50.71
060.0	006.0000	0115.9	030.3	131.8	000.0990	0179.9	025.7	50.34
061.0	006.0000	0116.9	030.4	131.9	000.0990	0180.0	026.2	49.98
062.0	006.0000	0117.3	030.4	132.2	000.0990	0180.2	026.8	49.64
063.0	006.0000	0116.8	030.4	132.7	000.0990	0180.8	027.2	49.34
064.0	006.0000	0116.4	030.3	133.2	000.0990	0181.3	027.7	49.05
065.0	006.0000	0116.1	030.3	133.6	000.0990	0181.7	028.2	48.76
066.0	006.0000	0115.8	030.3	134.1	000.0990	0182.0	028.7	48.47
067.0	006.0000	0115.6	030.2	134.5	000.0990	0182.1	029.2	48.17
068.0	006.0000	0115.3	030.2	135.0	000.0990	0181.9	029.6	47.87
069.0	006.0000	0115.5	030.2	135.3	000.0990	0181.4	030.1	47.56
070.0	006.0000	0115.3	030.2	135.8	000.0990	0180.7	030.6	47.24
071.0	006.0000	0114.6	030.1	136.3	000.0990	0179.3	031.0	46.93

E2A W259AV - WNML INTERFERENCE PLOT

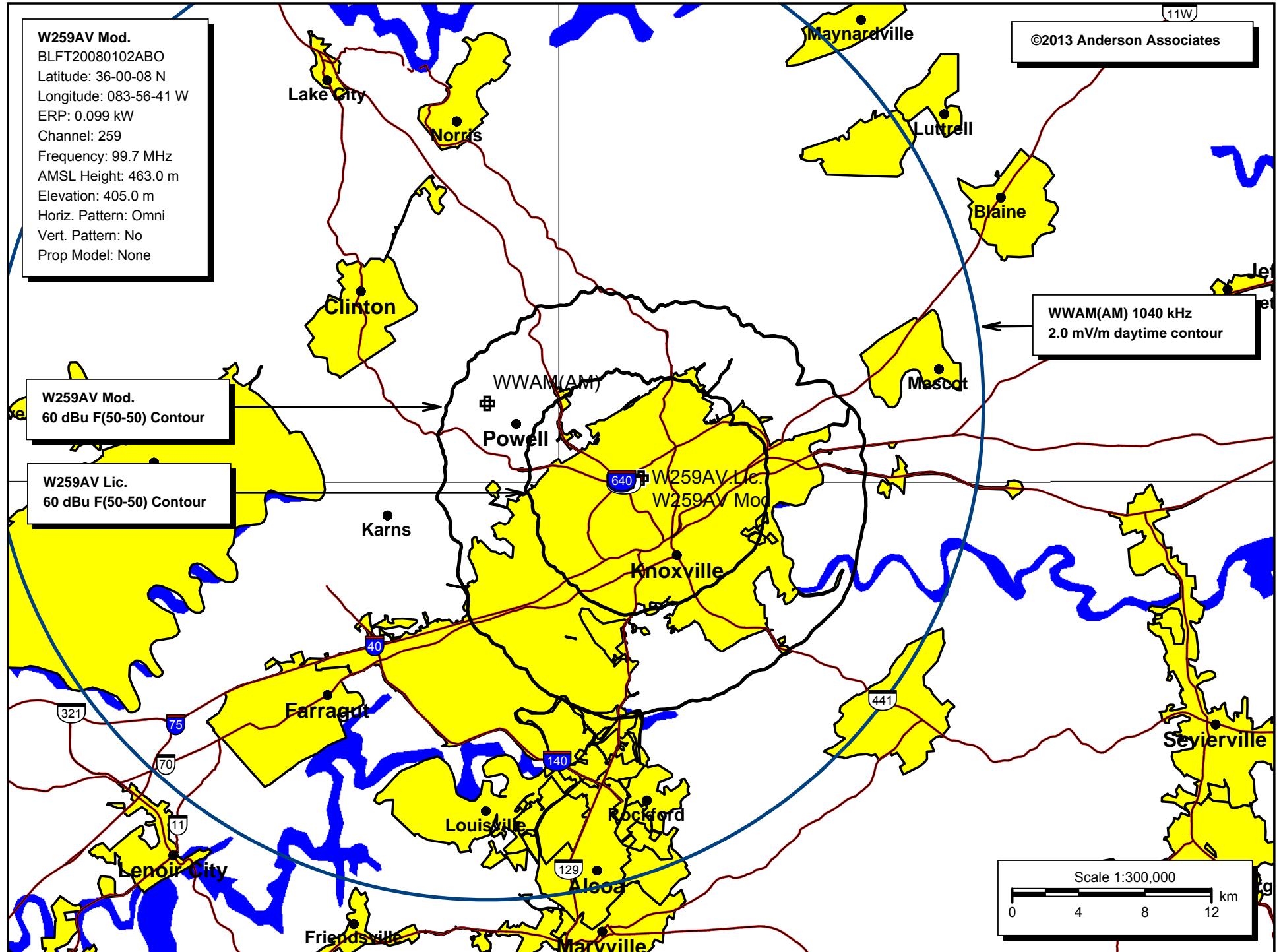
FMCommander Single Allocation Study - 03-27-2013 - USGS 03 SEC
W259AV's Overlaps (In= 15.46 km, Out= 0.13 km)

W259AV CH 259 D
Lat= 36 00 08.0, Lng= 83 56 41.0
0.099 kW 150.9 M HAAT, 463 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WNML-FM CH 256 A 73.215 N BLH20121226AAZ
Lat= 35 42 42.0, Lng= 84 01 21.0
6.0 kW 93 M HAAT, 413 M COR
Prot.= 60 dBu, Intef.= 100 dBu



E-3 W259AV Contour Plot



W259AV Tower ASR

Registration 1000295

Registration Detail

Reg Number	1000295	Status	Constructed
File Number	A0598411	Constructed	01/01/1989
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	36-00-08.0 N 083-56-41.0 W	Address	331 SHARP RIDGE MEMORIAL DR
City, State	KNOXVILLE , TN	County	KNOX
Zip	37917	Position of Tower in Array	
Center of AM Array			

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
405.4	61.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
466.4	61.0

Painting and Lighting Specifications

None

FAA Notification

FAA Study	89-ASO-0115-OE	FAA Issue Date	09/19/1991
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Owner & Contact Information

FRN	0010310357	Owner Entity Type	
Owner			
Magnuson , Dwight R 2112 N. 33rd Street Boise , ID 83703-5820		P:	(208)338-0233
		F:	
		E:	dwrightmag@cableone.net
Contact			
P:			
F:			
E:			

Last Action Status

Status	Constructed	Received	07/01/2008
Purpose	Admin Update	Entered	07/01/2008
Mode	Interactive		

Related Applications