

**MINOR CHANGE APPLICATION**  
**TO CORRECT COORDINATES**  
**MEADE COUNTY COMMUNICATIONS, INC.**  
**WMMG AM RADIO STATION**  
**1140 kHz - 0.25 kW - NDD**  
**BRANDENBURG, KENTUCKY**  
**November 2007**

**EXHIBIT #2A**

**AM Broadcast Allocation Study**

FACTORS AFFECTING 1140 kHz

North Latitude: 37° 59' 09" - West Longitude: 86° 11' 04"

11-02-2007

		***** 1110 KHZ *****			
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW ANTENNA CALL CO ST CITY
568.95	( 353.53)	122.3	35: 7:56/ 80:53:23	LI D A	50.00 DAN-2651.5 WBT US NC CHARLOTTE CLASS A
909.67	( 565.24)	295.6	41: 7:11/ 96: 0: 6	LI D A	50.00 DAN-2674.3 KFAB US NE OMAHA CLASS A
			MAXIMUM SEARCH DISTANCE	150	KILOMETERS

		***** 1120 KHZ *****			
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW ANTENNA CALL CO ST CITY
320.37	( 199.07)	137.3	35:50:32/ 83:46:21	LI D	1.00 NDD- 297.7 WKCE US TN MARYVILLE
			MAXIMUM SEARCH DISTANCE	330	KILOMETERS

		***** 1130 KHZ *****			
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW ANTENNA CALL CO ST CITY
911.03	( 566.09)	232.2	32:42:18/ 93:52:55	LI D A	50.00 DAN-2890.4 KWKH US LA SHREVEPORT CLASS A
1087.98	( 676.04)	69.4	40:48:39/ 74: 2:24	LI D A	50.00 DAN-2685.7 WBBR US NY NEW YORK CLASS A
3179.15	(1975.43)	304.9	49: 9:22/123: 4: 0	-- D 1B	50.00 DA2-2096.0 CKWX CA BC VANCOUVER CLASS 1B
176.67	( 109.77)	187.9	36:24:38/ 86:27:16	LI D D	2.30 NDD- 453.9 WYXE US TN GALLATIN
176.67	( 109.77)	187.9	36:24:38/ 86:27:16	LI C D	0.94 NDD- 290.2 WYXE US TN GALLATIN
188.68	( 117.24)	334.3	39:30:44/ 87: 8:18	LI D D	0.50 ND2- 227.6 WSDX US IN BRAZIL
239.87	( 149.05)	34.8	39:44:55/ 84:35: 2	LI D D	0.25 DAD- 164.0 WEDI US OH EATON
241.06	( 149.79)	232.2	36:38: 8/ 88:19:10	LI D D	1.50 NDD- 368.6 WOFC US KY MURRAY
433.87	( 269.60)	118.0	36: 4:39/ 81:54:59	LI D D	1.00 NDD- 363.7 WECR US NC NEWLAND
465.11	( 289.00)	151.6	34:16:45/ 83:46:33	LI C D	1.00 NDD- 416.8 WLBA US GA GAINESVILLE
465.11	( 289.00)	151.6	34:16:45/ 83:46:33	LI D D	10.00 NDD-1318.1 WLBA US GA GAINESVILLE
474.89	( 295.08)	88.7	37:57:28/ 80:45:45	LI D D	1.00 NDD- 301.0 WRRR US WV RAINELLE
			MAXIMUM SEARCH DISTANCE	500	KILOMETERS

		***** 1140 KHZ *****			
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW ANTENNA CALL CO ST CITY
782.12	( 485.98)	92.0	37:24:13/ 77:18:59	LI U A	50.00 DA1-2574.9 WRVA US VA RICHMOND CLASS A
2.44	( 1.51)	92.9	37:59: 5/ 86: 9:24	LI D D	0.25 NDD- 158.5 WMMG US KY BRANDENBURG
272.82	( 169.53)	94.6	37:44:58/ 83: 5:19	LI D D	1.00 NDD- 282.0 WRLV US KY SALYERSVILLE
299.52	( 186.12)	146.4	35:43:35/ 84:20:49	LI D D	1.00 NDD- 299.3 WLOD US TN LOUDON
339.51	( 210.96)	187.1	34:57:11/ 86:38:46	LI D D	15.00 DAD-1243.1 WBXR US AL HAZEL GREEN
339.51	( 210.96)	187.1	34:57:11/ 86:38:46	LI C D	7.50 DAD- 980.0 WBXR US AL HAZEL GREEN
363.95	( 226.15)	108.7	36:52:15/ 82:18:21	LI D D	2.50 NDD- 474.7 WXLZ US VA ST. PAUL
363.95	( 226.15)	108.7	36:52:15/ 82:18:21	LI C D	1.10 NDD- 314.9 WXLZ US VA ST. PAUL
393.38	( 244.43)	11.3	41:27:16/ 85:15:48	LI D D	0.25 NDD- 141.0 WAWK US IN KENDALLVILLE
408.87	( 254.06)	258.1	37: 8:29/ 90:42:11	LI D D	1.00 NDD- 299.3 KPWB US MO PIEDMONT
414.86	( 257.78)	315.6	40:36:12/ 89:37:32	LI D D	5.00 NDD- 680.1 WVLE US IL PEKIN
414.86	( 257.78)	315.6	40:36:12/ 89:37:32	LI C D	3.20 NDD- 544.1 WVLE US IL PEKIN
503.00	( 312.55)	223.0	34:36:56/ 89:56: 9	LI D D	5.00 NDD- 676.5 WSAO US MS SENATOBIA
553.45	( 343.90)	6.1	42:56: 9/ 85:27:26	LI D D	5.00 DAD- 739.6 WJNZ US MI KENTWOOD
565.46	( 351.36)	116.6	35:34:20/ 80:35:21	LI D D	1.00 DAD- 322.2 WRNA US NC CHINA GROVE
565.46	( 351.36)	116.6	35:34:20/ 80:35:21	LI C D	0.25 DAD- 152.9 WRNA US NC CHINA GROVE
726.49	( 451.42)	283.6	39:14:18/ 94:23:59	LI D D	0.50 ND2- 206.0 KCXL US MO LIBERTY
726.49	( 451.42)	257.5	36:18:10/ 94: 6:47	CP D	1.00 NDD- 307.0 KLTK US AR CENTERTON
738.23	( 458.72)	324.6	43:17:13/ 91:28: 6	LI D D	1.00 NDD- 302.6 KHPP US IA WAUKON
762.84	( 474.01)	260.1	36:30:28/ 94:36:35	LI D D	0.20 NDD- 149.7 KLTK US MO SOUTHWEST CITY
			MAXIMUM SEARCH DISTANCE	800	KILOMETERS

			***** 1150 KHZ *****						
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW	ANTENNA	CALL	CO	ST CITY
83.08	( 51.62)	163.4	37:16: 9/ 85:54:56	LI D	1.00	ND1-	304.2	WLOC	US KY MUNFORDVILLE
199.97	( 124.26)	87.4	38: 2:41/ 83:54: 5	LI D	2.50	ND2-	477.7	WMST	US KY MT. STERLING
239.54	( 148.84)	264.0	37:43:47/ 88:53:44	LI D D	5.00	DAD-	688.8	WGGH	US IL MARION
320.45	( 199.12)	126.5	36:14:11/ 83:18:33	LI D B	5.00	DAN-	676.5	WCRK	US TN MORRISTOWN
332.98	( 206.90)	166.6	35: 4: 5/ 85:20: 4	LI D B	5.00	DAN-	687.3	WGOW	US TN CHATTANOOGA
348.41	( 216.49)	30.1	40:40:47/ 84: 6:34	LI D B	1.00	DAN-	317.0	WIMA	US OH LIMA
377.44	( 234.53)	215.4	35:11:27/ 88:35:21	LI D D	1.00	NDD-	297.7	WDTM	US TN SELMER
406.54	( 252.61)	97.5	37:25: 1/ 81:36:58	LI D D	5.00	NDD-	687.3	WELC	US WV WELCH
464.83	( 288.83)	141.1	34:41:11/ 82:59:27	LI D D	1.00	ND1-	317.0	WSNW	US SC SENECA
464.83	( 288.83)	141.1	34:41:11/ 82:59:27	AP D	1.00	ND2-	317.0	WSNW	US SC SENECA
			MAXIMUM SEARCH DISTANCE 500 KILOMETERS						

  

			***** 1160 KHZ *****						
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW	ANTENNA	CALL	CO	ST CITY
2238.94	(1391.21)	286.1	40:46:46/112: 5:56	LI U A	50.00	ND1-2822.2	KSL	US UT	SALT LAKE CLASS A
51.07	( 31.74)	260.1	37:54:20/ 86:45:30	LI D B	2.50	DAN-	503.8	WKCM	US KY HAWESVILLE
170.34	( 105.84)	49.6	38:58: 9/ 84:40:56	LI D B	5.00	DA2-	657.2	WDJO	US KY FLORENCE
207.88	( 129.17)	193.3	36: 9:49/ 86:42:56	LI D B	50.00	DAN-1995.5	WCRT	US TN	DONELSON
274.26	( 170.41)	106.2	37:15:27/ 83:12:25	-- D D	1.00	NDD-	301.0	NEW	US KY HAZARD
			MAXIMUM SEARCH DISTANCE 300 KILOMETERS						

  

			***** 1170 KHZ *****						
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW	ANTENNA	CALL	CO	ST CITY
515.50	( 320.32)	61.2	40: 6: 7/ 80:52: 2	LI D A	50.00	DAN-2617.4	WWVA	US WV	WHEELING CLASS A
876.91	( 544.89)	259.5	36: 8:49/ 95:48:27	LI D A	50.00	DAN-2833.6	KFAQ	US OK	TULSA CLASS A
4893.05	(3040.40)	327.5	64:45:34/147:19:26	LI D A	50.00	ND1-2697.0	KJNP	US AK	NORTH POLE CLASS A
125.86	( 78.21)	109.7	37:35:46/ 84:50:19	LI D D	1.00	DAD-	305.2	WDFB	US KY JUNCTION CITY
			MAXIMUM SEARCH DISTANCE 150 KILOMETERS						

  

			***** 570 KHZ *****						
KM	(MI)	DEGREES	LATITUDE/LONGITUDE	TY SH CL	KW	ANTENNA	CALL	CO	ST CITY
			MAXIMUM SEARCH DISTANCE 50 KILOMETERS						



# GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

## WMMG - Brandenburg, KY

Corrected Coordinates

Solid Lines

Freq: 1140 kHz

Class: D

Latitude: 37-59-09 N

Longitude: 086-11-04 W

Power: 0.25 kW

RMS: 317.04 mV/m @1km

# Towers: 1

## WMMG - Brandenburg, KY

Licensed Coordinates

Dashed Lines

Freq: 1140 kHz

Class: D

Latitude: 37-59-05 N

Longitude: 086-09-24 W

Power: 0.25 kW

RMS: 317.04 mV/m @1km

# Towers: 1

## WLOC - Munfordville, KY

Freq: 1150 kHz

Class: D

Latitude: 37-16-09 N

Longitude: 085-54-56 W

Power: 1 kW

RMS: 304.17 mV/m @1km

# Towers: 1

INTERFERENCE FROM  
WLOC REDUCED

INTERFERENCE  
TO WLOC REDUCED

++  
WMMG

+  
WLOC

ALLOCATION CLEARANCE

Scale 1:1,250,000

0 15 30 45 km

0.5 mV/m  
0.25 mV/m

EXHIBIT #2B  
MINOR CHANGE APPLICATION  
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**November 2007**

**EXHIBIT #2C**

**WMMG - 1140 kHz - Brandenburg, KY - 0.25 kW - ND**

CORRECTED COORDINATES:

North Latitude: 37° 59' 09"  
West Longitude: 86° 11' 04"

Azimuth	Radiation (mV/m at one km)	Dist to Contours - km: Contour levels in mV/m.		Azimuth	Radiation (mV/m at one km)	Dist to Contours - km: Contour levels in mV/m.	
		.500	.250			.500	.250
110.0	158.52	33.63	45.40	165.0	158.52	33.63	45.40
115.0	158.52	33.63	45.40	170.0	158.52	33.63	45.40
120.0	158.52	33.63	45.40	175.0	158.52	33.63	45.40
125.0	158.52	33.63	45.40	180.0	158.52	33.63	45.40
130.0	158.52	33.63	45.40	185.0	158.52	33.63	45.40
135.0	158.52	33.63	45.40	190.0	158.52	33.63	45.40
140.0	158.52	33.63	45.40	195.0	158.52	33.63	45.40
145.0	158.52	33.63	45.40	200.0	158.52	33.63	45.40
150.0	158.52	33.63	45.40	205.0	158.52	33.63	45.40
155.0	158.52	33.63	45.40	210.0	158.52	33.63	45.40
160.0	158.52	33.63	45.40	215.0	158.52	33.63	45.40

LICENSED COORDINATES:

North Latitude: 37° 59' 05"  
West Longitude: 86° 09' 24"

Azimuth	Radiation (mV/m at one km)	Dist to Contours - km: Contour levels in mV/m.		Azimuth	Radiation (mV/m at one km)	Dist to Contours - km: Contour levels in mV/m.	
		.500	.250			.500	.250
110.0	158.52	33.63	45.40	165.0	158.52	33.63	45.40
115.0	158.52	33.63	45.40	170.0	158.52	33.63	45.40
120.0	158.52	33.63	45.40	175.0	158.52	33.63	45.40
125.0	158.52	33.63	45.40	180.0	158.52	33.63	45.40
130.0	158.52	33.63	45.40	185.0	158.52	33.63	45.40
135.0	158.52	33.63	45.40	190.0	158.52	33.63	45.40
140.0	158.52	33.63	45.40	195.0	158.52	33.63	45.40
145.0	158.52	33.63	45.40	200.0	158.52	33.63	45.40
150.0	158.52	33.63	45.40	205.0	158.52	33.63	45.40
155.0	158.52	33.63	45.40	210.0	158.52	33.63	45.40
160.0	158.52	33.63	45.40	215.0	158.52	33.63	45.40

GROUND CONDUCTIVITY: FCC M-3



**MINOR CHANGE APPLICATION**  
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**November 2007**

**EXHIBIT #2D**

**WLOC - 1150 kHz - Munfordville, KY - 1.0 kW - ND**

North Latitude: 37° 16' 09"  
 West Longitude: 85° 54' 56"

Azimuth	Radiation (mV/m at one km)	Dist to Contours - km: Contour levels in mV/m.		Azimuth	Radiation (mV/m at one km)	Dist to Contours - km: Contour levels in mV/m.	
		.500	.250			.500	.250
315.0	304.17	44.59	60.20	345.0	304.17	44.59	60.20
320.0	304.17	44.59	60.20	350.0	304.17	44.59	60.20
325.0	304.17	44.59	60.20	355.0	304.17	44.59	60.20
330.0	304.17	44.59	60.20	0.0	304.17	44.59	60.20
335.0	304.17	44.59	60.20	5.0	304.17	44.59	60.20
340.0	304.17	44.59	60.20	10.0	304.17	44.59	60.20

GROUND CONDUCTIVITY: FCC M-3