

Technical Report W231BT Minor Modification

This technical report is submitted for a minor modification to W231BT at Martinsville, IN, FCC file no. BLFT-20110209ADD. As a result of a new primary co-channel 231A CP facility at Worthington, IN, FCC file no. BNPF-20110630AGE, a waiver of 74.1233(a)(1) is requested to permit W231BT move to the non-adjacent channel 254 with corresponding changes in antenna and ERP. The translator is to remain as a fill-in to rebroadcast the primary signal of WMYJ(AM) 1540 kHz at Martinsville, IN, FCC facility I.D. 57356.

W231BT Modification Analysis:

The overlap studies in exhibit E-1 show the +/-3 and +53, 54 I.F. channel moves are not available for W231BT due to the displacement. A modification to channel 254 will allow the facility to serve its current listeners without causing interference to any other facilities (exhibit E-2).

Antenna System:

An ERI 100A-1M single bay circularly polarized antenna is to be mounted at its current tower site, ASR #1028571, and operate at 0.250 kW ERP at a COR AGL of 57 meters (FCC 30 second 12 radial terrain HAAT = 90 meters). The facility is within the WMYJ(AM) 2.0 mV/m daytime contour and overlaps the current licensed 60 dBu facility (exhibit E-3).

Anderson Associates

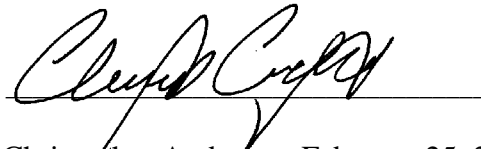
Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

RF Exposure Calculation:

The RF contribution from the 0.250 kW facility was evaluated using the Commission's FMMODEL program. The maximum RF is calculated to be $1.23 \mu\text{W}/\text{cm}^2$ at a distance of 54 meters from the base of the tower, which is well below 5% of the $200 \mu\text{W}/\text{cm}^2$ maximum permissible for general public exposure allowing its exclusion from consideration.

Conclusion:

It is concluded that the modification of W231BT complies with all Commission rules and policies.



Christopher Anderson February 25, 2013
andersce@bham.rr.com
© 2013 Anderson Associates

E-1 W231BT Overlap Study at Current Ch. 231

REFERENCE		CH# 231D - 94.1 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M						DISPLAY DATES			
39 26 18.0 N.		Average Protected F(50-50)= 12.2 km						DATA 02-25-13			
86 27 58.0 W.		Omni-directional						SEARCH 02-25-13			
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	34.8	10.3	-45.7*	-47.3*
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
231A	NEW	CP	CX	218.0	60.70	39 00 25.9	6.000	82.4	24.8	-35.3*	-11.4
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
234B	WFBQ	LIC	CN	24.0	55.59	39 53 43.0	58.000	8.3	78.3	33.9	-24.3*
Indianapolis			IN	204.1	BLH19980707KB	86 12 04.0	245	502	Capstar Tx Llc		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	8.400	53.4	41.0	-7.2	-5.8
Lawrence			IN	224.0	BLH20120301AEG	85 58 51.0	140	393	Susquehanna Radio Corp.		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	6.900	51.2	39.4	-5.0	-4.2
Lawrence			IN	224.0	BLH20101203ABV	85 58 51.0	146	393	Susquehanna Radio Corp.		
232A	WREB	LIC	HN	304.2	44.20	39 39 38.0	3.000	22.9	15.2	10.8	14.7
Greencastle			IN	123.9	BLH3278	86 53 34.0	49	285	The Original Company, Inc		
228A	WGPI	CP	CX	132.7	48.59	39 08 29.9	6.000	2.5	25.4	32.5	21.1
Columbus			IN	312.9	BNPED20100226AFV	86 03 06.9	100	317	The Gabriel Project, Inc.		
231B	WNNF	LIC	CX	101.3	173.21	39 06 59.0	16.000	124.3	63.4	36.7	52.3
Cincinnati			OH	282.6	BLH20070313AAT	84 30 07.0	264	483	Cumulus Licensing Llc		
232A	WIFE-FM	LIC	C	70.0	88.60	39 42 22.0	1.050	38.1	25.3	37.2	44.0
Rushville			IN	250.6	BMLH20000913AAR	85 29 41.0	171	462	Rodgers Broadcasting Corp.		
285A	WINN«	LIC	CN	122.7	51.85	39 11 09.0	6.000	10.2	79.5	9.5R	42.4M
Columbus			IN	303.0	BLH19910501KA	85 57 37.0	91	297	White River Broadcasting C		
231B	WGFA-FM	LIC	CN	324.4	186.31	40 47 37.0	50.000	131.5	58.1	43.5	73.3
Watseka			IL	143.6	BLH19970711KC	87 45 17.0	111	305	Iroquois County Broadcasti		
231D	W231CB	LIC	C	356.9	96.18	40 18 12.0	0.250	36.2	10.7	49.2	49.4
Frankfort			IN	176.8	BLFT20091125ADH	86 31 40.0	73	327	Kaspar Broadcasting Co., I		
230L1	WVRG-LP	LIC		331.8	77.47	40 03 08.0	0.087	7.7	5.4	58.5	56.3
Crawfordsville			IN	151.6	BLL20020612AEV	86 53 45.0	32	272	Calvary Chapel Of Crawford		
229A	WPFR-FM	LIC	CX	278.5	87.72	39 33 01.0	2.350	2.6	29.9	73.5	56.7
Clinton			IN	97.9	BLED20110614AAL	87 28 32.0	161	334	Word Power, Inc.		
233D	649259	APP	C	136.8	72.84	38 57 33.0	0.250	1.1	7.1	58.1	64.6
Seymour			IN	317.2	BNPFT20030317FDV	85 53 24.0	26	205	The Trustees Of Indiana Un		
229A	AL6644	RSV-A		187.8	94.51	38 35 41.0	6.000	2.4	23.4	79.6	67.1
French Lick			IN	7.7	RM11412	86 36 48.0	100	290			
285D	649046«	APP	C	30.2	76.85	40 02 07.0	0.250	10.2	79.5	9.5R	67.4M
Noblesville			IN	210.5	BNPFT20030317GWL	86 00 44.0	11	259	Kaspar Broadcasting Co, In		
285A	WAXI«	LIC	CX	294.6	78.48	39 43 44.0	1.700	10.2	79.5	9.5R	69.0M
Rockville			IN	114.1	BMLH20070802ADU	87 17 56.0	134	317	Dlc Media, Inc.		

Terrain database is FCC NGDC 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= 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.

W231BT Overlap Study at Ch. 228

REFERENCE

CH# 228D - 93.5 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M

DISPLAY DATES

39 26 18.0 N. Average Protected F(50-50)= 12.2 km

DATA 02-25-13

86 27 58.0 W. Omni-directional

SEARCH 02-25-13

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
228A	WGPI	CP	CX	132.7	48.59	39 08 29.9	6.000	83.5	25.4	-48.4*	-23.9
Columbus			IN	312.9	BNPED20100226AFV	86 03 06.9	100	317	The Gabriel Project, Inc.		
226B	WIBC	LIC	CX	47.1	53.99	39 46 03.0	13.500	5.6	66.3	34.7	-13.9*
Indianapolis			IN	227.4	BLH20031121APA	86 00 12.0	302	551	Emmis Radio License, Llc		
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	1.0	10.3	-11.9*	-11.5*
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	8.400	3.5	41.0	42.7	17.5
Lawrence			IN	224.0	BLH20120301AEG	85 58 51.0	140	393	Susquehanna Radio Corp.		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	6.900	3.3	39.4	42.9	19.1
Lawrence			IN	224.0	BLH20101203ABV	85 58 51.0	146	393	Susquehanna Radio Corp.		
227B1	WQTY	LIC	CN	239.1	91.46	39 00 46.0	12.000	55.8	42.5	21.5	23.2
Linton			IN	58.5	BLH19910408KB	87 22 23.0	145	294	The Original Company, Inc		
228A	WKHY	LIC	CN	338.0	113.77	40 23 13.0	6.000	79.5	22.9	23.1	53.8
Lafayette			IN	157.7	BLH19950329KA	86 58 10.0	75	274	Wask, Inc.		
229A	WPFR-FM	LIC	CX	278.5	87.72	39 33 01.0	2.350	45.0	29.9	31.1	42.0
Clinton			IN	97.9	BLED20110614AAL	87 28 32.0	161	334	Word Power, Inc.		
231A	NEW	CP	CX	218.0	60.70	39 00 25.9	6.000	2.5	24.8	44.7	34.3
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
281D	650300«	APP	C	285.8	51.30	39 33 45.4	0.170	10.2	79.5	9.5R	41.8M
Knightsville			IN	105.5	BNPFT20030317KQX	87 02 26.0	15	220	Covenant Network		
228A	WMXQ	LIC	ZCN	38.7	140.66	40 25 16.0	3.000	82.7	28.1	44.0	65.4
Hartford City			IN	219.3	BLH19921019KA	85 25 40.0	139	408	Backyard Broadcasting Indi		
229A	AL6644	RSV-A		187.8	94.51	38 35 41.0	6.000	37.1	23.4	45.1	50.1
French Lick			IN	7.7	RM11412	86 36 48.0	100	290			
228A	WSJK	CP	NCX	292.0	163.19	39 58 25.0	5.000	86.9	29.4	65.4	97.9
Tuscola			IL	110.9	BPH20111003AFS	88 14 18.0	110	319	S.j. Broadcasting, Llc		
228A	WSJK	LIC	CN	289.2	163.79	39 54 24.0	6.000	86.2	28.0	66.5	99.9
Tuscola			IL	108.0	BLH19931217KC	88 16 35.0	94	299	S.j. Broadcasting, Llc		
228A	WMMG-FM	LIC	CN	170.5	163.59	37 59 05.0	3.400	76.7	24.2	74.8	97.8
Brandenburg			KY	350.7	BMLH19900515KH	86 09 24.0	88	278	Meade County Communication		
227B	WAKW	LIC	DEX	98.4	166.70	39 12 19.0	50.000	75.2	62.5	79.6	79.3
Cincinnati			OH	279.6	BMLH20061010ADL	84 33 23.0	150	366	Pillar Of Fire		
231D	W231CB	LIC	C	356.9	96.18	40 18 12.0	0.250	1.1	10.7	84.2	84.4
Frankfort			IN	176.8	BLFT20091125ADH	86 31 40.0	73	327	Kaspar Broadcasting Co., I		
225D	649325	APP	C	188.0	98.67	38 33 29.0	0.250	1.1	7.1	85.0	90.5
French Lick			IN	7.9	BNPFT20030317FWY	86 37 27.0	17	207	The Trustees Of Indiana Un		

Terrain database is FCC NGDC 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= 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.

W231BT Overlap Study at Ch. 229

REFERENCE

CH# 229D - 93.7 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M

DISPLAY DATES

39 26 18.0 N. Average Protected F(50-50)= 12.2 km

DATA 02-25-13

86 27 58.0 W. Omni-directional

SEARCH 02-25-13

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
226B	WIBC	LIC	CX	47.1	53.99	39 46 03.0	13.500	5.6	66.3	34.7	-13.9*
Indianapolis			IN	227.4	BLH20031121APA	86 00 12.0	302	551	Emmis Radio License, Llc		
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	1.0	10.3	-11.9*	-11.5*
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
229A	WPFR-FM	LIC	CX	278.5	87.72	39 33 01.0	2.350	84.9	29.9	-8.8	19.6
Clinton			IN	97.9	BLED20110614AAL	87 28 32.0	161	334	Word Power, Inc.		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	8.400	53.4	41.0	-7.2	-5.8
Lawrence			IN	224.0	BLH20120301AEG	85 58 51.0	140	393	Susquehanna Radio Corp.		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	6.900	51.2	39.4	-5.0	-4.2
Lawrence			IN	224.0	BLH20101203ABV	85 58 51.0	146	393	Susquehanna Radio Corp.		
228A	WGPI	CP	CX	132.7	48.59	39 08 29.9	6.000	39.7	25.4	-4.6	2.1
Columbus			IN	312.9	BNPED20100226AFV	86 03 06.9	100	317	The Gabriel Project, Inc.		
229A	AL6644	RSV-A		187.8	94.51	38 35 41.0	6.000	81.6	23.4	0.6	25.6
French Lick			IN	7.7	RM11412	86 36 48.0	100	290			
232A	WREB	LIC	HN	304.2	44.20	39 39 38.0	3.000	1.6	15.2	32.1	27.8
Greencastle			IN	123.9	BLH3278	86 53 34.0	49	285	The Original Company, Inc		
229B	WFCJ	LIC	CX	81.7	186.54	39 39 35.0	50.000	139.9	66.6	34.2	59.4
Miamisburg			OH	263.1	BMLH20080102ABQ	84 18 53.0	150	418	Miami Valley Christian Bro		
231A	NEW	CP	CX	218.0	60.70	39 00 25.9	6.000	2.5	24.8	44.7	34.3
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
283B	WJJK«	LIC	CX	29.0	51.10	39 50 25.0	50.000	10.2	79.5	14.5R	36.6M
Noblesville			IN	209.1	BMLH20030828AYT	86 10 34.0	150	390	Susquehanna Radio Corp.		
283B	AL9217«	RSV-A		29.0	51.10	39 50 25.0	50.000	10.2	79.5	14.5R	36.6M
Noblesville			IN	209.1	RM10153	86 10 34.0	150	391			
227B1	WQTY	LIC	CN	239.1	91.46	39 00 46.0	12.000	3.7	42.5	73.5	46.9
Linton			IN	58.5	BLH19910408KB	87 22 23.0	145	294	The Original Company, Inc		
229A	WFRR	LIC	CN	9.7	145.02	40 43 31.0	6.000	84.4	26.6	48.3	80.2
Walton			IN	189.9	BLH19951120KB	86 10 33.0	100	324	Christian Friends Broadcas		
230L1	WVRG-LP	LIC		331.8	77.47	40 03 08.0	0.087	7.7	5.4	58.5	56.3
Crawfordsville			IN	151.6	BLL20020612AEV	86 53 45.0	32	272	Calvary Chapel Of Crawford		
232A	WIFE-FM	LIC	C	70.0	88.60	39 42 22.0	1.050	1.9	25.3	73.3	62.2
Rushville			IN	250.6	BMLH20000913AAR	85 29 41.0	171	462	Rodgers Broadcasting Corp.		
228A	WKHY	LIC	CN	338.0	113.77	40 23 13.0	6.000	34.5	22.9	68.2	75.2
Lafayette			IN	157.7	BLH19950329KA	86 58 10.0	75	274	Wask, Inc.		
230D	W230BQ	CP	C	226.3	113.53	38 43 47.0	0.050	12.6	9.0	86.8	83.7
Bruceville			IN	45.7	BPFT20120928AMP	87 24 44.0		263	The Original Company, Inc.		
228A	WMXQ	LIC	ZCN	38.7	140.66	40 25 16.0	3.000	42.7	28.1	84.0	91.7
Hartford City			IN	219.3	BLH19921019KA	85 25 40.0	139	408	Backyard Broadcasting Indi		
231D	W231CB	LIC	C	356.9	96.18	40 18 12.0	0.250	1.1	10.7	84.2	84.4
Frankfort			IN	176.8	BLFT20091125ADH	86 31 40.0	73	327	Kaspar Broadcasting Co., I		

Terrain database is FCC NGDC 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= 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.

W231BT Overlap Study at Ch. 232

REFERENCE

CH# 232D - 94.3 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M

DISPLAY DATES

39 26 18.0 N. Average Protected F(50-50)= 12.2 km

DATA 02-25-13

86 27 58.0 W. Omni-directional

SEARCH 02-25-13

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
232A	WREB	LIC	HN	304.2	44.20	39 39 38.0	3.000	59.8	15.2	-26.1*	-6.3
Greencastle			IN	123.9	BLH3278	86 53 34.0	49	285	The Original Company, Inc		
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	14.4	10.3	-25.3*	-25.8*
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
234B	WFBQ	LIC	CN	24.0	55.59	39 53 43.0	58.000	8.3	78.3	33.9	-24.3*
Indianapolis			IN	204.1	BLH19980707KB	86 12 04.0	245	502	Capstar Tx Llc		
232A	WIFE-FM	LIC	C	70.0	88.60	39 42 22.0	1.050	74.8	25.3	0.4	18.8
Rushville			IN	250.6	BMLH20000913AAR	85 29 41.0	171	462	Rodgers Broadcasting Corp.		
231A	NEW	CP	CX	218.0	60.70	39 00 25.9	6.000	38.2	24.8	8.9	14.7
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	8.400	3.5	41.0	42.7	17.5
Lawrence			IN	224.0	BLH20120301AEG	85 58 51.0	140	393	Susquehanna Radio Corp.		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	6.900	3.3	39.4	42.9	19.1
Lawrence			IN	224.0	BLH20101203ABV	85 58 51.0	146	393	Susquehanna Radio Corp.		
286A	WHCC«	LIC	C	215.9	33.76	39 11 32.0	1.700	10.2	79.5	9.5R	24.3M
Ellettsville			IN	35.8	BLH20000502AAN	86 41 46.0	189	408	Artistic Media Partners, I		
286A	WHCC«	APP	CX	215.8	34.18	39 11 19.0	1.850	10.2	79.5	9.5R	24.7M
Ellettsville			IN	35.6	BPH20120416ACB	86 41 53.0	182	405	Artistic Media Partners, I		
232C2	WULF	LIC	NCN	174.3	174.76	37 52 18.0	40.000	133.8	51.2	28.8	81.3
Hardinsburg			KY	354.4	BLH19950630KE	86 16 04.0	160	366	Skytower Communications -		
285A	WINN«	LIC	CN	122.7	51.85	39 11 09.0	6.000	10.2	79.5	9.5R	42.4M
Columbus			IN	303.0	BLH19910501KA	85 57 37.0	91	297	White River Broadcasting C		
233D	649259	APP	C	136.8	72.84	38 57 33.0	0.250	10.1	7.1	49.1	45.2
Seymour			IN	317.2	BNPFT20030317FDV	85 53 24.0	26	205	The Trustees Of Indiana Un		
233A	WRZR	LIC	NCN	205.9	101.02	38 37 09.0	1.800	36.1	24.0	51.7	57.2
Loogootee			IN	25.6	BLH19980923KA	86 58 27.0	130	285	Hembree Communications, In		
229A	WPFR-FM	LIC	CX	278.5	87.72	39 33 01.0	2.350	2.6	29.9	73.5	56.7
Clinton			IN	97.9	BLED20110614AAL	87 28 32.0	161	334	Word Power, Inc.		
232D	649013	APP	C	342.3	111.02	40 23 24.0	0.250	34.8	10.3	65.4	63.9
Lafayette			IN	162.1	BNPFT20030317GVI	86 51 53.0	77	276	Kaspar Broadcasting Co, In		
229A	AL6644	RSV-A		187.8	94.51	38 35 41.0	6.000	2.4	23.4	79.6	67.1
French Lick			IN	7.7	RM11412	86 36 48.0	100	290			
285D	649046«	APP	C	30.2	76.85	40 02 07.0	0.250	10.2	79.5	9.5R	67.4M
Noblesville			IN	210.5	BNPFT20030317GWL	86 00 44.0	11	259	Kaspar Broadcasting Co, In		
285A	WAXI«	LIC	CX	294.6	78.48	39 43 44.0	1.700	10.2	79.5	9.5R	69.0M
Rockville			IN	114.1	BMLH20070802ADU	87 17 56.0	134	317	Dlc Media, Inc.		

Terrain database is FCC NGDC 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= 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.

W231BT Overlap Study at Ch. 233

REFERENCE		CH# 233D - 94.5 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M						DISPLAY DATES			
39 26 18.0 N.		Average Protected F(50-50)= 12.2 km						DATA 02-25-13			
86 27 58.0 W.		Omni-directional						SEARCH 02-25-13			
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
234B	WFBQ	LIC	CN	24.0	55.59	39 53 43.0	58.000	94.5	78.3	-52.5*	-45.7*
Indianapolis			IN	204.1	BLH19980707KB	86 12 04.0	245	502	Capstar Tx Llc		
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	1.0	10.3	-11.9*	-11.5*
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
236A	WVNI	LIC	NCN	161.7	24.23	39 13 52.0	3.800	2.4	23.8	10.1	-0.7
Nashville			IN	341.8	BLH19970904KB	86 22 40.0	105	329	Brown County Broadcasters,		
232A	WREB	LIC	HN	304.2	44.20	39 39 38.0	3.000	22.9	15.2	10.8	14.7
Greencastle			IN	123.9	BLH3278	86 53 34.0	49	285	The Original Company, Inc		
233A	WRZR	LIC	NCN	205.9	101.02	38 37 09.0	1.800	73.3	24.0	14.7	31.8
Loogootee			IN	25.6	BLH19980923KA	86 58 27.0	130	285	Hembree Communications, In		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	8.400	3.5	41.0	42.7	17.5
Lawrence			IN	224.0	BLH20120301AEG	85 58 51.0	140	393	Susquehanna Radio Corp.		
230B1	WRWM	LIC	NCX	43.7	60.02	39 49 39.0	6.900	3.3	39.4	42.9	19.1
Lawrence			IN	224.0	BLH20101203ABV	85 58 51.0	146	393	Susquehanna Radio Corp.		
233D	649259	APP	C	136.8	72.84	38 57 33.0	0.250	23.8	7.1	35.5	19.2
Seymour			IN	317.2	BNPFT20030317FDV	85 53 24.0	26	205	The Trustees Of Indiana Un		
286A	WHCC«	LIC	C	215.9	33.76	39 11 32.0	1.700	10.2	79.5	9.5R	24.3M
Ellettsville			IN	35.8	BLH20000502AAN	86 41 46.0	189	408	Artistic Media Partners, I		
286A	WHCC«	APP	CX	215.8	34.18	39 11 19.0	1.850	10.2	79.5	9.5R	24.7M
Ellettsville			IN	35.6	BPH20120416ACB	86 41 53.0	182	405	Artistic Media Partners, I		
233B	WLRW	LIC	CX	296.7	173.94	40 07 35.0	50.000	135.8	63.1	27.5	58.6
Champaign			IL	115.6	BLH20051107ABO	88 17 25.0	138	357	Saga Communications Of Ill		
231A	NEW	CP	CX	218.0	60.70	39 00 25.9	6.000	2.5	24.8	44.7	34.3
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
232A	WIFE-FM	LIC	C	70.0	88.60	39 42 22.0	1.050	38.1	25.3	37.2	44.0
Rushville			IN	250.6	BMLH20000913AAR	85 29 41.0	171	462	Rodgers Broadcasting Corp.		
233D	W233AO	LIC	V	163.7	96.00	38 36 29.0	0.013	22.9	6.5	60.9	52.2
Salem			IN	343.9	BLFT20070222AON	86 09 21.0	101	337	Good Shepherd Radio, Inc		
233C1	WMXL	LIC	NCX	129.2	228.46	38 07 24.0	85.000	159.7	63.8	55.2	117.8
Lexington			KY	310.5	BLH20061113ADA	84 26 37.0	194	485	Citicasters Licenses, Inc.		
236D	W236AE	LIC	CN	273.0	80.94	39 28 21.0	0.038	0.4	5.2	68.4	74.3
Terre Haute			IN	92.4	BLFT19960930TJ	87 24 20.0	54	213	The Trustees Of Indiana Un		
236D	W236AE	CP	C	273.0	81.42	39 28 20.0	0.043	0.5	4.5	68.9	75.7
Terre Haute			IN	92.4	BPFT20111213ABS	87 24 40.0		195	The Trustees Of Indiana Un		
287D	649225«	APP	C	97.3	85.38	39 20 14.0	0.120	10.2	79.5	9.5R	75.9M
Greensburg			IN	277.9	BNPFT20030317ENZ	85 29 01.0	24	301	The Trustees Of Indiana Un		
287D	W287BR«	LIC	C	70.1	85.85	39 41 48.0	0.250	10.2	79.5	9.5R	76.4M
Carthage			IN	250.7	BLFT20090818ACR	85 31 28.0	18	302	Indiana Community Radio Co		
231D	W231CB	LIC	C	356.9	96.18	40 18 12.0	0.250	1.1	10.7	84.2	84.4
Frankfort			IN	176.8	BLFT20091125ADH	86 31 40.0	73	327	Kaspar Broadcasting Co., I		

Terrain database is FCC NGDC 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= 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.											

W231BT Overlap Study at Ch. 234

REFERENCE		CH# 234D - 94.7 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M							DISPLAY DATES			
39 26 18.0 N.		Average Protected F(50-50)= 12.2 km							DATA 02-25-13			
86 27 58.0 W.		Omni-directional							SEARCH 02-25-13			

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*	
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)	

234B	WFBQ	LIC	CN	24.0	55.59	39 53 43.0	58.000	155.7	78.3	-113.6*	-76.8*	
Indianapolis			IN	204.1	BLH19980707KB	86 12 04.0	245	502	Capstar Tx Llc			
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	1.0	10.3	-11.9*	-11.5*	
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I			
236A	WVNI	LIC	NCN	161.7	24.23	39 13 52.0	3.800	2.4	23.8	10.1	-0.7	
Nashville			IN	341.8	BLH19970904KB	86 22 40.0	105	329	Brown County Broadcasters,			
232A	WREB	LIC	HN	304.2	44.20	39 39 38.0	3.000	1.6	15.2	32.1	27.8	
Greencastle			IN	123.9	BLH3278	86 53 34.0	49	285	The Original Company, Inc			
231A	NEW	CP	CX	218.0	60.70	39 00 25.9	6.000	2.5	24.8	44.7	34.3	
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc			
233D	649259	APP	C	136.8	72.84	38 57 33.0	0.250	10.1	7.1	49.1	45.2	
Seymour			IN	317.2	BNPFT20030317FDV	85 53 24.0	26	205	The Trustees Of Indiana Un			
288A	WQRK«	LIC	CN	180.7	58.87	38 54 29.0	2.000	10.2	79.5	9.5R	49.4M	
Bedford			IN	0.7	BLH19860623KA	86 28 28.0	122	316	Ad-venture Media, Inc.			
234A	WFIA-FM	LIC	NC	159.1	137.10	38 17 02.0	3.300	73.0	22.3	51.4	78.2	
New Albany			IN	339.4	BLH20010430AAH	85 54 17.0	120	316	Salem Media Of Kentucky, I			
233A	WRZR	LIC	NCN	205.9	101.02	38 37 09.0	1.800	36.1	24.0	51.7	57.2	
Loogootee			IN	25.6	BLH19980923KA	86 58 27.0	130	285	Hembree Communications, In			
235A	WRHK	LIC	CN	313.8	119.61	40 10 40.0	6.000	47.2	30.8	61.3	74.6	
Danville			IL	133.1	BLH19930415KA	87 28 55.0	100	295	Neuhoff Family Limited Pa			
232A	WIFE-FM	LIC	C	70.0	88.60	39 42 22.0	1.050	1.9	25.3	73.3	62.2	
Rushville			IN	250.6	BMLH20000913AAR	85 29 41.0	171	462	Rodgers Broadcasting Corp.			
236D	W236AE	LIC	CN	273.0	80.94	39 28 21.0	0.038	0.4	5.2	68.4	74.3	
Terre Haute			IN	92.4	BLFT19960930TJ	87 24 20.0	54	213	The Trustees Of Indiana Un			
236D	W236AE	CP	C	273.0	81.42	39 28 20.0	0.043	0.5	4.5	68.9	75.7	
Terre Haute			IN	92.4	BPFT201111213ABS	87 24 40.0		195	The Trustees Of Indiana Un			
237A	WNDI-FM	LIC	CX	251.9	97.83	39 09 36.0	6.000	2.6	26.8	81.4	69.6	
Sullivan			IN	71.2	BLH20040429AAB	87 32 32.0	100	248	J T M Broadcasting Corpora			
235B	WYNG	LIC	CN	225.1	162.65	38 23 57.0	50.000	76.2	63.3	72.4	69.7	
Mount Carmel			IL	44.3	BLH19790820AD	87 47 18.0	128	258	W. Russell Withers, Jr.			
233D	W233AO	LIC	V	163.7	96.00	38 36 29.0	0.013	9.6	6.5	74.1	73.8	
Salem			IN	343.9	BLFT20070222AON	86 09 21.0	101	337	Good Shepherd Radio, Inc			
237A	WUME-FM	LIC	CN	180.6	99.70	38 32 25.0	3.000	2.3	24.4	85.2	74.2	
Paoli			IN	0.6	BLH5483	86 28 42.0	91	299	Diamond Shores Broadcastin			
287D	649225«	APP	C	97.3	85.38	39 20 14.0	0.120	10.2	79.5	9.5R	75.9M	
Greensburg			IN	277.9	BNPFT20030317ENZ	85 29 01.0	24	301	The Trustees Of Indiana Un			
287D	W287BR«	LIC	C	70.1	85.85	39 41 48.0	0.250	10.2	79.5	9.5R	76.4M	
Carthage			IN	250.7	BLFT20090818ACR	85 31 28.0	18	302	Indiana Community Radio Co			

Terrain database is FCC NGDC 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= 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.

W231BT Overlap Study at Ch. 284

REFERENCE		CH# 284D - 104.7 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M						DISPLAY DATES			
39 26 18.0 N.		Average Protected F(50-50)= 12.2 km						DATA 02-25-13			
86 27 58.0 W.		Omni-directional						SEARCH 02-25-13			
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
283B	AL9217	RSV-A		29.0	51.10	39 50 25.0	50.000	80.8	67.4	-43.9*	-42.9*
Noblesville		IN		209.1	RM10153	86 10 34.0	150	391			
283B	WJJK	LIC	CX	29.0	51.10	39 50 25.0	50.000	80.6	67.3	-43.7*	-42.8*
Noblesville		IN		209.1	BMLH20030828AYT	86 10 34.0	150	390	Susquehanna Radio Corp.		
284B	WITZ-FM	LIC	CN	198.9	127.57	38 21 02.0	50.000	133.6	60.5	-19.0*	6.3
Jasper		IN		18.6	BLH6255	86 56 26.0	119	273	Jasper On The Air, Inc.		
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	1.0	10.3	9.5R	-9.5M
Martinsville		IN		0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
285A	WINN	LIC	CN	122.7	51.85	39 11 09.0	6.000	35.8	23.5	2.5	8.1
Columbus		IN		303.0	BLH19910501KA	85 57 37.0	91	297	White River Broadcasting C		
286A	WHCC	LIC	C	215.9	33.76	39 11 32.0	1.700	2.3	28.4	18.0	4.2
Ellettsville		IN		35.8	BLH20000502AAN	86 41 46.0	189	408	Artistic Media Partners, I		
286A	WHCC	APP	CX	215.8	34.18	39 11 19.0	1.850	2.4	28.8	18.4	4.3
Ellettsville		IN		35.6	BPH20120416ACB	86 41 53.0	182	405	Artistic Media Partners, I		
287D	W287BE	LIC	V	53.7	35.62	39 37 39.0	0.001	0.1	1.8	21.8	32.5
Greenwood		IN		233.9	BLFT200711114ABC	86 07 53.0	6	240	Friends Of Christian Radio		
287D	W287BE	CP	C	46.2	39.77	39 41 07.0	0.080	0.6	7.1	25.4	31.5
Greenwood		IN		226.4	BPFT20120319AHZ	86 07 51.0		260	Friends Of Christian Radio		
285A	WAXI	LIC	CX	294.6	78.48	39 43 44.0	1.700	36.5	24.1	31.4	39.3
Rockville		IN		114.1	BMLH20070802ADU	87 17 56.0	134	317	Dlc Media, Inc.		
281D	650300	APP	C	285.8	51.30	39 33 45.4	0.170	0.9	6.4	39.2	43.8
Knightsville		IN		105.5	BNPFT20030317KQX	87 02 26.0	15	220	Covenant Network		
230B1	WRWM«	LIC	NCX	43.7	60.02	39 49 39.0	6.900	3.3	39.4	11.5R	48.5M
Lawrence		IN		224.0	BLH20101203ABV	85 58 51.0	146	393	Susquehanna Radio Corp.		
230B1	WRWM«	LIC	NCX	43.7	60.02	39 49 39.0	8.400	3.5	41.0	11.5R	48.5M
Lawrence		IN		224.0	BLH20120301AEG	85 58 51.0	140	393	Susquehanna Radio Corp.		
285D	649046	APP	C	30.2	76.85	40 02 07.0	0.250	10.1	7.1	53.0	50.2
Noblesville		IN		210.5	BNPFT20030317GWL	86 00 44.0	11	259	Kaspar Broadcasting Co, In		
231A	NEW«	CP	CX	218.0	60.70	39 00 25.9	6.000	2.5	24.8	9.5R	51.2M
Worthington		IN		37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
284B	WTUE	LIC	CX	80.0	196.44	39 43 19.0	28.000	132.1	65.6	51.6	71.5
Dayton		OH		261.5	BMLH20120315ADK	84 12 33.0	200	467	Citicasters Licenses, Inc.		
287B	WKOA	LIC	CN	343.1	111.93	40 24 08.0	50.000	4.3	52.1	96.8	58.3
Lafayette		IN		162.9	BLH6529	86 50 59.0	94	291	Wask, Inc.		
281B	WLBC-FM	LIC	CX	48.8	122.92	40 09 40.0	41.000	5.5	62.1	103.7	59.3
Muncie		IN		229.5	BMLH20041020AAB	85 22 44.0	140	438	Backyard Broadcasting Indi		

Terrain database is FCC NGDC 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= 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.

W231BT Overlap Study at Ch. 285

REFERENCE		CH# 285D - 104.9 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M						DISPLAY DATES			
39 26 18.0 N.		Average Protected F(50-50)= 12.2 km						DATA 02-25-13			
86 27 58.0 W.		Omni-directional						SEARCH 02-25-13			

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)

285A	WINN	LIC	CN	122.7	51.85	39 11 09.0	6.000	80.6	23.5	-42.3*	-17.6
Columbus			IN	303.0	BLH19910501KA	85 57 37.0	91	297	White River Broadcasting C		
286A	WHCC	LIC	C	215.9	33.76	39 11 32.0	1.700	43.2	28.4	-22.8*	-16.1
Ellettsville			IN	35.8	BLH20000502AAN	86 41 46.0	189	408	Artistic Media Partners, I		
286A	WHCC	APP	CX	215.8	34.18	39 11 19.0	1.850	43.5	28.8	-22.8*	-16.0
Ellettsville			IN	35.6	BPH20120416ACB	86 41 53.0	182	405	Artistic Media Partners, I		
283B	AL9217	RSV-A		29.0	51.10	39 50 25.0	50.000	6.3	67.4	31.0	-17.9*
Noblesville			IN	209.1	RM10153	86 10 34.0	150	391			
283B	WJJK	LIC	CX	29.0	51.10	39 50 25.0	50.000	6.3	67.3	31.1	-17.8*
Noblesville			IN	209.1	BMLH20030828AYT	86 10 34.0	150	390	Susquehanna Radio Corp.		
231D	W231BT	LIC	DC	0.0	0.00	39 26 18.0	0.215	1.0	10.3	9.5R	-9.5M
Martinsville			IN	0.0	BLFT20110209ADD	86 27 58.0		305	Mid-america Radio Group, I		
285A	WAXI	LIC	CX	294.6	78.48	39 43 44.0	1.700	73.5	24.1	-5.6	18.2
Rockville			IN	114.1	BMLH20070802ADU	87 17 56.0	134	317	Dlc Media, Inc.		
285A	WERK	LIC	CX	47.7	119.21	40 09 19.0	6.000	87.0	28.6	18.5	44.1
Muncie			IN	228.3	BMLH20050322ADL	85 25 48.0	100	392	Backyard Broadcasting Indi		
287D	W287BE	LIC	V	53.7	35.62	39 37 39.0	0.001	0.1	1.8	21.8	32.5
Greenwood			IN	233.9	BLFT20071114ABC	86 07 53.0	6	240	Friends Of Christian Radio		
285D	649046	APP	C	30.2	76.85	40 02 07.0	0.250	23.8	7.1	39.3	24.6
Noblesville			IN	210.5	BNPFT20030317GWL	86 00 44.0	11	259	Kaspar Broadcasting Co, In		
287D	W287BE	CP	C	46.2	39.77	39 41 07.0	0.080	0.6	7.1	25.4	31.5
Greenwood			IN	226.4	BPFT20120319AHZ	86 07 51.0		260	Friends Of Christian Radio		
288A	WQRK	LIC	CN	180.7	58.87	38 54 29.0	2.000	2.3	26.2	44.3	31.6
Bedford			IN	0.7	BLH19860623KA	86 28 28.0	122	316	Ad-venture Media, Inc.		
232A	WREB«	LIC	HN	304.2	44.20	39 39 38.0	3.000	1.6	15.2	9.5R	34.7M
Greencastle			IN	123.9	BLH3278	86 53 34.0	49	285	The Original Company, Inc		
284B	WITZ-FM	LIC	CN	198.9	127.57	38 21 02.0	50.000	73.3	60.5	41.3	39.2
Jasper			IN	18.6	BLH6255	86 56 26.0	119	273	Jasper On The Air, Inc.		
231A	NEW«	CP	CX	218.0	60.70	39 00 25.9	6.000	2.5	24.8	9.5R	51.2M
Worthington			IN	37.7	BNPH20110630AGE	86 53 54.6	99	280	Super Waves, Llc		
287B	WKOA	LIC	CN	343.1	111.93	40 24 08.0	50.000	4.3	52.1	96.8	58.3
Lafayette			IN	162.9	BLH6529	86 50 59.0	94	291	Wask, Inc.		
288A	WWVR	LIC	C	271.4	86.50	39 27 13.0	3.300	2.3	24.4	71.9	60.9
West Terre Haute			IN	90.8	BLH19991129AAI	87 28 15.0	90	255	Emmis Radio License, Llc		
286B	WUBE-FM	LIC	CX	101.0	173.26	39 07 30.0	14.500	73.5	62.5	87.6	85.2
Cincinnati			OH	282.2	BMLH20071226AAR	84 29 56.0	279	490	Cincinnati Fcc License Sub		
231D	W231CB«	LIC	C	356.9	96.18	40 18 12.0	0.250	1.1	10.7	9.5R	86.7M
Frankfort			IN	176.8	BLFT20091125ADH	86 31 40.0	73	327	Kaspar Broadcasting Co., I		
286D	644573	APP	C	246.6	119.51	39 00 20.0	0.170	11.1	7.8	94.3	90.9
Robinson			IL	65.8	BNPFT20030317AKL	87 44 00.0	33	183	Covenant Network		
285A	WPXN	LIC	CN	309.5	179.62	40 27 11.0	3.000	77.0	25.0	91.7	119.7
Paxton			IL	128.4	BLH19841026DD	88 06 11.0	91	323	Paxton Broadcasting Corpor		
286D	636259	APP	C	247.3	122.91	39 00 21.0	0.055	10.9	7.6	98.0	94.9
Robinson			IL	66.5	BNPFT20030313BOT	87 46 35.0	67	219	Illinois Bible Institute,		
285A	WFIW-FM	LIC	CN	234.4	199.59	38 22 46.0	4.900	85.9	28.8	99.4	122.4
Fairfield			IL	53.2	BLH19960731KF	88 19 33.0	111	238	The Original Company, Inc.		

Terrain database is FCC NGDC 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= 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.

E-2 W231BT Overlap Study at Ch. 254

REFERENCE

CH# 254D - 98.7 MHz, Pwr= 0.25 kW, HAAT= 90.0 M, COR= 307 M

DISPLAY DATES

39 26 18.0 N. Average Protected F(50-50)= 12.2 km

DATA 02-25-13

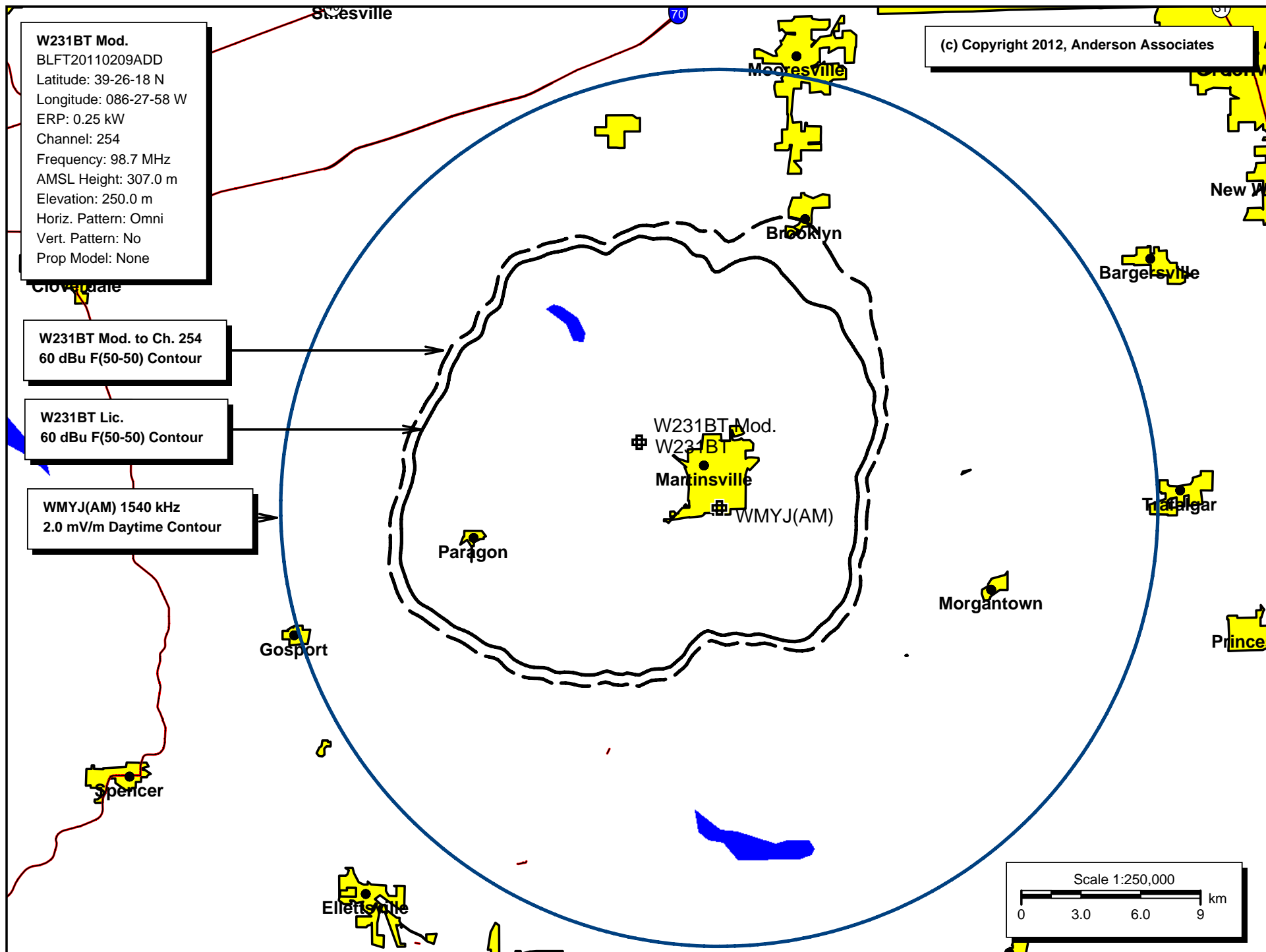
86 27 58.0 W. Omni-directional

SEARCH 02-25-13

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
254A	WQME	LIC	CN	46.6	88.58	39 58 59.0	4.500	85.9	28.9	-11.1	12.6
Anderson			IN	227.1	BLH19970512KF	85 42 41.0	117	390	Anderson University, Inc.		
252A	WRDZ-FM	LIC	CN	12.3	36.47	39 45 33.0	3.000	2.4	26.0	21.9	9.2
Plainfield			IN	192.4	BLH19830131AS	86 22 30.0	91	341	Radio Disney Group, Llc		
254A	WASK-FM	LIC	CN	342.3	111.08	40 23 26.0	4.400	82.4	26.7	17.9	47.5
Battle Ground			IN	162.1	BLH19930323KF	86 51 53.0	117	317	Wask, Inc.		
251D	W251AG	LIC	DCN	190.9	30.84	39 09 56.0	0.250	0.2	3.7	18.1	23.8
Bloomington			IN	10.9	BLFT19960205TA	86 32 02.0	27	255	Bloomington Community Radi		
253B	WIBQ	LIC	C	280.2	109.87	39 36 20.0	50.000	79.2	66.1	19.1	20.4
Paris			IL	99.4	BMLH20110215AEO	87 43 32.0	152	360	Midwest Communications, In		
253L1	WHUM-LP	LIC		118.1	53.55	39 12 38.0	0.100	8.0	5.6	32.2	29.1
Columbus			IN	298.4	BLL20040528AVS	85 55 07.0	13	212	Columbus Community Radio C		
253L1	WSHI-LP	LIC		87.0	56.73	39 27 47.0	0.100	9.6	6.7	34.6	31.5
Shelbyville			IN	267.4	BLL20061121ACN	85 48 28.0	27	257	Shelbyville S.d.a. Broadca		
256D	632458	APP	C	36.3	48.01	39 47 09.0	0.080	0.6	7.1	33.5	39.8
Indianapolis			IN	216.5	BNPFT20030314APD	86 08 00.0	22	260	Horizon Christian Fellowsh		
254D	W254AP	LIC	DC	77.5	89.88	39 36 31.1	0.250	17.1	5.2	60.0	40.5
Rushville			IN	258.1	BLFT20091030ADB	85 26 39.0	12	302	Indiana Community Radio Co		
252D	W252BY	LIC	C	136.9	72.95	38 57 29.0	0.100	0.7	5.6	58.6	66.2
Seymour			IN	317.3	BLFT20080219AAT	85 53 23.0	11	190	Community Radio For Hoosie		
255D	W255BG	LIC	C	98.9	85.42	39 18 54.0	0.080	10.2	7.2	63.1	61.3
Greensburg			IN	279.6	BLFT20070816ABD	85 29 15.0	36	311	The Trustees Of Indiana Un		
201A	WMBL	LIC	V	183.6	75.02	38 45 50.0	1.000	10.2	79.5	9.5R	65.5M
Mitchell			IN	3.6	BMLED20030806ABZ	86 31 15.0	122	313	The Moody Bible Institute		
256B	WYXY	LIC	CX	305.7	136.85	40 08 53.0	50.000	6.3	67.5	119.8	68.0
Savoy			IL	124.8	BLH20090317AAM	87 46 21.0	152	354	Saga Communications Of Ill		
255C2	WNRW	LIC	ZCX	149.1	160.93	38 11 31.0	43.000	77.1	51.9	70.5	91.3
Prospect			KY	329.7	BLH20100507ACN	85 31 11.0	157	353	Cc Licenses, Llc		
201B	WJCF-FM	LIC	DCX	65.7	85.56	39 45 01.0	28.000	10.2	79.5	14.5R	71.1M
Morristown			IN	246.3	BLED20121205ADC	85 33 19.0	49	334	Indiana Community Radio Co		
251D	649209	APP	C	97.3	85.38	39 20 14.0	0.120	0.8	6.8	72.4	77.4
Greensburg			IN	277.9	BNPFT20030317EMX	85 29 01.0	24	301	The Trustees Of Indiana Un		
201B1	WSRC	LIC	DCX	334.8	87.46	40 09 00.0	17.000	10.2	79.5	11.5R	76.0M
Waynetown			IN	154.6	BLED20100903AAE	86 54 14.0	119	358	Calvary Chapel Of Crawford		

Terrain database is FCC NGDC 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= 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.

E-3 W231BT Mod. 60 dBu Contour Plot



E-4 W231BT Mod. ASR 1028571

ASR Registration Search

Registration 1028571

 [Map Registration](#)

Registration Detail			
Reg Number	1028571	Status	Constructed
File Number	A0706065	Constructed	04/01/1988
EMI	No	Dismantled	
NEPA	No		
Antenna Structure			
Structure Type	TOWER - Free standing or Guyed Structure used for Commu		
Location (in NAD83 Coordinates)			
Lat/Long	39-26-18.0 N 086-27-58.0 W	Address	.7 MI WNW INT HWYS 67 & 39
City, State	MARTINSVILLE , IN		
Zip	46151	County	MORGAN
Center of AM Array		Position of Tower in Array	
Heights (meters)			
Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)		
249.9	68.0		
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances		
317.9	67.1		
Painting and Lighting Specifications			
FCC Paragraphs 1, 3, 11, 21			
FAA Notification			
FAA Study	CHI-OE-68-270	FAA Issue Date	07/09/1968
Owner & Contact Information			
FRN	0005272513	Owner Entity Type	
Assignor FRN	0020351342	Assignor ID	L01604236
Owner			
MID AMERICA RADIO GROUP, INC. Attention To: DAVID KEISTER P.O. Box 1970 MARTINSVILLE , IN 46151		P: (765)349-1485 F: E:	
Contact			
JAZZO , FRANK R ESQ 1300 NORTH 17TH STREET, 11TH FLOOR ARLINGTON , VA 22209		P: (703)812-0400 F: E: JAZZO@FHHLAW.COM	
Last Action Status			