

TECHNICAL STATEMENT
NEW(FM) TRANSLATOR
FCC FORM 349
MILWAUKEE, WISCONSIN, CH. 262D
MARY MEDICUS
AUGUST 2013

This FCC “Long Form” 349 application is being submitted in response to DA 13-1675 released July 31st, 2013 regarding Non-Mutually exclusive Tech Box proposals, or “Singleton” applications for new Auction 83 FM translator stations. This application is response to an original application filed by Mary Medicus, BNPFT-20030317HNT, facility ID 156567, for a new FM translator for Milwaukee, WI on channel 262D. This application is listed in “Attachment A” of DA 13-1675, report No. AUC-03-83-E.

The applicant does not seek to make any technical changes to the current pending “Tech Box” application, thus no new LPFM preclusion study is required since the applicant is relying on the previously filed LPFM preclusion study.

This application proposes service on channel 262D (100.3 Mhz) from an existing registered tower, 1039847, located at the NAD 27 coordinates of N 43° 09’ 18”, W 87° 58’ 57”. The existing tower has an overall height of 78.9 meters. The proposed antenna will be a Scala Model CL-H, with horizontal polarization, mounted at the 68 meters above ground center of radiation, and 285 meters height above mean sea level. An effective radiated power of 0.012 kilowatts (12 watts).

Figure 1 is a detailed channel interference study conducted at the proposed site. As can be seen, there will not be any outgoing prohibited overlap with any other stations on Co-channel or pertinent adjacent channels, with the exception of 2nd adjacent channel station WKKV-FM Racine, WI, operating on channel 264B, facility ID 53975.

The proposed operation on 262D is located within the protected 60 dB μ contour of 2nd adjacent channel of WKKV-FM (ch. 264B). Figure 2 shows that WKKV-FM produces a field strength of 67.9 dB μ at the proposed site. Therefore, the respective worst case predicted interfering contour F(50-10) generated by the proposed translator on channel 262D is an additional 40 dB μ or 107.9 dB μ .

Figure 3 shows the coverage area for the "worse case" 107.9 dB μ interference contour F(50-10) and shows that there is no population in the area of interference. The 107.9 dB μ interference contour would only extend 0.0285 kilometers (28.5 meters). Since the antenna will be mounted 68 meters above the ground level, the interference contour will not reach the ground. Thus, there will be no actual interference caused to WKKV-FM. Figure 4 is a Topographic Map showing the area around the proposed site. Figure 5 is a Satellite view map of the area located around the proposed site. The applicant, Mary Medicus, respectfully requests a waiver of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference. There are no homes nearby the proposed existing tower site, which is a privately owned with private access. Should any unforeseen actual interference be caused, the licensee will immediately cease broadcasting with new translator at Milwaukee, WI until such interference can be eliminated.

Figure 6 is a tabulation for 36 standard radials (every 10 degrees), average heights above average terrain for each radial and the distances to pertinent contours for the proposed operation on channel 262D.

Figure 7 is the directional antenna data for the proposed antenna.

This application will not overlap with any other proposed FM translator applications submitted in "Auction 83".

It was determined that this form 349 FM translator application will comply with all of the technical requirements under part C.F.R. 74 of the Commission's rules and regulation.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

NEW FM TRANSLATOR, MILWAUKEE, WI, CH 262D

CH# 262D - 100.3 MHz, Pwr= 0.012 kW DA, HAAT= 69.5 M, COR= 285 M

Average Protected F(50-50)= 5.08 km

Standard Directional

DISPLAY DATES

DATA 08-24-13

SEARCH 08-25-13

REFERENCE
43 09 18.0 N.
87 58 57.0 W.

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (km)
264B Racine	WKKV-FM	LIC _CX WI	187.9 7.8	39.25 BMLH20100809CJO	42 48 18.0 88 02 54.0	50.000 152	6.1 386	65.8 Clear Channel Broadcasting	28.1	-26.9 **
261A Port Washington	WPJP	LIC ZCN WI	358.1 178.1	29.51 BLH19970624KC	43 25 14.0 87 59 40.0	6.000 97	44.3 349	28.0 Starboard Media Foundation	-15.1	0.0
262C2 Neenah-menasha	WNCY-FM	LIC NCN WI	352.2 172.0	123.68 BLH19950526KB	44 15 27.0 88 11 41.0	45.000 149	131.9 377	47.7 Midwest Communications, In	-9.0	73.0
262D Milwaukee	1549746 *	APP DH_ WI	0.0 0.0	0.00 BNPFT20030317HNT	43 09 18.0 87 58 57.0	0.012	2.8 285	0.7 Mary Medicus	-3.6	-3.6 *
264D Shorewood	1551551	APP DC_ WI	142.9 323.0	9.05 BNPFT20030314BIT	43 05 24.0 87 54 55.0	0.104	0.7 283	8.7 Clear Channel Broadcasting	2.5	0.2
262B Chicago	WILV	LIC _CX IL	168.0 348.2	142.62 BLH20030702AAW	41 53 56.0 87 37 23.0	5.700 425	127.8 606	66.1 Chicago Fcc License Sub, L	9.4	51.3
259D Saukville	W259AO	LIC _V_ WI	359.1 179.1	24.62 BLFT20130702ABZ	43 22 36.0 87 59 15.0	0.010	0.2 278	3.9 Lakeshore Communications,	23.7	20.3
263D Sheboygan	W263BQ	LIC _C_ WI	14.3 194.5	70.05 BLFT20121203ACC	43 45 56.0 87 45 59.0	0.150	12.2 266	8.5 Wrvm, Inc.	56.8	59.9
260B1 Janesville	WJVL	LIC _CN WI	244.3 63.5	107.78 BLH19891018KB	42 43 47.0 89 10 10.0	11.000 153	4.0 427	45.8 Southern Wisconsin Broadca	101.3	61.8
263A Monona	WTLX	LIC _CX WI	269.3 88.4	115.24 BLH20090306ABX	43 08 04.0 89 23 56.0	6.000 55	32.4 338	21.9 Good Karma Broadcasting, L	81.5	91.2
261A Portage	WDDC	LIC NCN WI	290.0 109.0	124.76 BLH19990329KG	43 31 42.0 89 26 01.0	3.100 114	40.4 367	26.5 Magnum Communications, Inc	83.7	96.8
260D Waukegan	W260BL	LIC _C_ IL	176.3 356.4	91.95 BLFT20071026ACO	42 19 44.0 87 54 38.0	0.010 91	0.2 303	5.6 Calvary Radio Network, Inc	86.4	86.0
259D Sun Prairie	1563801	APP DC_ WI	271.6 90.7	103.68 BNPFT20030317MJP	43 10 25.0 89 15 26.0	0.170	0.9 313	7.1 Radio 74 Internationale	101.4	96.4
261A Holton	WVIB	LIC DCX MI	82.6 263.8	149.52 BLH20041118ACA	43 18 50.0 86 09 17.0	2.900 144	43.5 346	28.6 Radio License Holding Cbc,	101.6	116.5
263D Loves Park	W263BJ	LIC _C_ IL	220.9 40.3	121.98 BLFT20111121ENA	42 19 21.0 88 57 14.0	0.230	15.2 355	10.8 Maverick Media Of Rockford	103.2	108.5
265A Rockford	WQFL	LIC ZC_ IL	222.6 41.9	125.12 BMLED20110421ABV	42 19 20.0 89 00 41.0	2.700 149	1.7 396	20.6 Educational Media Foundati	119.9	103.5
262B1 Savanna	WCCI	LIC NCN IL	237.9 56.4	210.43 BLH19901204KG	42 07 47.0 90 08 24.0	9.600 157	102.4 374	44.2 Carroll County Communicati	105.3	162.6
265D Madison	1564276	APP DV_ WI	265.5 84.5	126.85 BNPFT20030314CBQ	43 03 21.0 89 32 06.0	0.250	1.0 543	20.1 Capstar Tx Limited Partner	124.2	106.2
265D Madison	1567216	APP DV_ WI	265.5 84.5	126.85 BNPFT20130805ABT	43 03 21.0 89 32 06.0	0.250	1.0 543	20.1 Capstar Tx Limited Partner	124.2	106.2
264D Manitowoc	W264BE	LIC _C_ WI	15.9 196.1	113.91 BLFT20070514AFP	44 08 25.0 87 35 31.0	0.080 48	0.6 237	7.5 Wrvm, Inc.	112.2	106.4
264D Waukau	W264BK	LIC DV_ WI	325.3 144.7	112.90 BLFT20091116AAN	43 59 11.0 88 47 10.0	0.250 22	0.1 271	2.2 Wrvm, Inc.	112.1	108.6
259C2 Sturgeon Bay	WZDR	LIC _CN WI	9.7 189.9	166.96 BLH19910211KD	44 38 08.0 87 37 37.0	46.000 156	5.7 373	50.4 Midwest Communications In	160.4	115.9
264D Appleton	W264CN	CP _C_ WI	346.4 166.2	125.84 BNPFT20130318ADX	44 15 19.0 88 21 11.0	0.027	0.4 286	4.9 Edgewater Broadcasting, In	124.7	120.3
263A Custer	R14902	DEL ____ MI	56.1 237.3	168.59	43 59 10.0 86 14 11.0	6.000 100	43.8 309	28.4 Roy E. Henderson	121.5	138.6
263A Custer	AU7058386	VAC ____ MI	56.1 237.3	168.59 RM10320	43 59 10.0 86 14 11.0	6.000 100	43.8 309	28.4 Mason County Broadcasting	121.5	138.6

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG			PWR(kw) HAAT(M)	INT(km) COR(M)	Page # 2		*OUT*
											PRO(km) LICENSEE	*IN* (Overlap in km)	
260B Benton Harbor	WHFB-FM	LIC NCN MI		134.2 315.3	188.50 BLH19990210KC	41 57 42.0 86 21 02.0			50.000 124	5.8 337	64.2 Douglas Road Radio, Inc.	176.9	123.5
263L1 Hart	WEEH-LP	LIC MI		64.8 245.9	138.91 BMLL20070904AIE	43 40 29.0 86 25 21.0			0.060 39	9.9 257	7.0 Oceana Broadcasters, Inc	125.4	129.7
260A Custer	R14902	ADD MI		55.2 236.3	161.50	43 58 16.0 86 19 42.0			6.000 100	2.9 302	29.8 Roy E. Henderson	155.5	131.7
263A Walker	WTRV	LIC MI	_CX	94.1 275.6	183.25 BLH20060602AAJ	43 00 59.0 85 44 24.0			3.000 100	39.5 320	25.9 Townsquare Media Of Grand	138.8	151.3
260B Park Forest	WCPQ	LIC IL	_C_	176.4 356.5	206.32 BMLH20010511ABE	41 18 04.0 87 49 35.0			50.000 150	5.8 359	63.6 Wclr, Inc.	195.3	142.3
260C3 Rudolph	WSAU-FM	LIC WI	_CN	315.1 133.9	187.89 BLH19960415KE	44 20 19.0 89 38 55.0			13.000 138	3.8 459	37.5 Wrig, Inc	183.4	150.4
261A Bear Lake	R14902	DEL MI		46.0 227.3	205.54	44 25 18.0 86 07 17.0			6.000 100	46.6 335	30.4 Roy E. Henderson	156.3	173.8
264B Elkhart	WBYT	LIC IN	_CN	138.7 320.0	225.64 BLH19940713KA	41 36 58.0 86 11 38.0			15.000 277	5.7 517	66.8 Pathfinder Communications	214.1	158.0
265C3 Richland Center	WRCO-FM	LIC WI	_C_	276.0 94.3	199.31 BLH20080107ADV	43 18 55.5 90 25 34.6			8.400 170	4.0 438	40.8 Fruit Broadcasting, LLC	194.1	158.1
261A Mendota	WGLC-FM	LIC IL	ZCN	207.6 26.8	202.12 BLH19911023KA	41 32 16.0 89 06 25.0			6.000 100	38.5 326	25.0 Mendota Broadcasting, Inc.	159.3	170.9
265A Allegan	AL6571	RSV-A MI		111.0 292.5	194.71 RM11267	42 30 31.0 85 46 08.0			6.000 100	3.0 328	31.7 186.3		162.6
262C1 Grayling	WQON	LIC MI	NCN	58.0 240.3	307.73 BLH19950714KB	44 34 15.0 84 41 33.0			60.000 131	137.5 497	49.5 Blarney Stone Broadcasting	166.9	255.1
265A Allegan	WQXC-FM	LIC MI	_C_	110.9 292.4	194.75 BLH20061006AAE	42 30 32.0 85 46 06.0			3.000 100	2.5 328	27.0 Forum Communications, Inc.	186.9	167.4
265A Allegan	WQXC-FM	CP MI	_CX	110.9 292.4	195.53 BPH20111221ADH	42 30 26.0 85 45 32.0			3.000 100	2.5 331	27.1 Forum Communications, Inc.	187.6	168.0
261A Bear Lake	WCUZ	LIC MI	NCX	44.1 225.4	213.07 BLH20120216ADP	44 30 54.0 86 06 53.0			2.050 172	42.2 406	28.1 Roy E. Henderson	168.2	183.7
263C3 Rothschild	WDTX	LIC WI	NC_	323.3 142.0	235.34 BLH20100125AAO	44 50 13.0 89 45 57.0			25.000 84	60.4 461	39.2 Sunrise Broadcasting LLC.	174.3	193.9
264C3 Bear Lake	WCUZ	APP MI	NCX	44.1 225.4	213.07 BPH20120301ADL	44 30 54.0 86 06 53.0			8.000 172	3.7 406	38.6 Roy E. Henderson	206.7	174.7
264C3 Bear Lake	R14902	ADD MI		44.4 225.7	213.99	44 30 47.0 86 05 45.0			25.000 100	3.7 337	36.4 Roy E. Henderson	207.6	176.4
264C3 Bear Lake	WCUZ	RSV-A MI		44.4 225.7	213.99	44 30 47.0 86 05 45.0			25.000 100	3.7 337	36.4 Roy E. Henderson	207.6	176.4
264A Coal City	WRXQ	LIC IL	NCN	184.3 4.2	207.27 BLH20000111AGQ	41 17 39.0 88 10 15.0			2.450 147	2.5 319	27.8 Nm Licensing LLC	199.7	179.0
265A Big Rapids	WWBR	LIC MI	_CN	73.5 255.2	210.30 BLH19920206KG	43 39 49.0 85 28 54.0			6.000 97	2.5 406	25.0 Mentor Partners, Inc.	203.8	184.0
261A Hastings	WBCH-FM	LIC MI	_C_	104.0 285.9	228.59 BMLH20040629AAF	42 37 34.0 85 16 41.0			3.000 90	38.0 359	25.1 Barry Broadcasting Co.	185.4	196.5
259C Midland	R14902	DEL MI		80.6 263.0	281.48	43 30 56.0 84 32 49.0			100.000 600	13.5 812	91.2 Roy E. Henderson	263.6	190.5
259C0 Midland	R14902	ADD MI		80.6 263.0	281.48	43 30 56.0 84 32 49.0			100.000 450	12.0 662	82.3 Roy E. Henderson	265.1	199.3
262A Angola	WLKI	LIC IN	NCN	122.8 304.8	294.99 BLH19920429KA	41 40 51.0 85 00 05.0			4.000 120	85.7 428	29.2 Swick Broadcasting Company	203.7	247.1
265A Peru	WBZG	LIC IL	_C_	207.0 26.2	230.33 BLH19991227AAQ	41 18 09.0 89 14 11.0			3.000 100	2.2 281	22.8 Mendota Broadcasting, Inc	223.8	207.3
259C Midland	WUGN	LIC MI	_CX	80.6 263.0	281.57 BLED20130702ABR	43 30 57.0 84 32 45.0			100.000 304	10.0 519	71.8 Family Life Broadcasting S	267.2	210.0
263A Henry	WRVY-FM	LIC IL	_CN	206.5 25.6	257.27 BLH19900727KB	41 04 32.0 89 21 10.0			3.000 100	39.3 278	26.0 Wzoe, Inc	213.6	225.5

											Page # 3	
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)	
261C1 Rhineland	WRHN	LIC _CX WI		338.3 157.3	296.95 BLH20050620ACJ	45 37 42.0 89 23 38.0	100.000 89	76.6 575	46.9 Nrg License Sub, Llc	219.6	248.2	
261A Winamac	WFRI	LIC ZCN IN		152.3 333.3	264.50 BLH19980928KC	41 02 21.0 86 30 55.0	6.000 100	37.1 319	24.6 Progressive Broadcasting S	221.7	230.6	
264B Lansing	WITL-FM	LIC _CN MI		99.5 281.8	289.30 BLH19850610KF	42 40 33.0 84 30 00.0	26.500 196	5.8 465	64.7 Radio License Holding Cbc,	278.4	224.1	
259C3 Black River Falls	WWIS-FM	LIC _CN WI		300.0 118.0	267.74 BLH19910516KD	44 19 11.0 90 53 31.0	25.000 100	4.4 387	41.6 Wwis Radio, Inc.	262.6	226.2	
262C1 Gwinn	WUPT	LIC _CX MI		5.9 186.3	375.44 BLH20111013AEU	46 30 51.7 87 28 40.2	100.000 156	146.9 482	51.4 Radioactive, Llc	227.8	321.1	
261A Garnavillo	KCTN	LIC _CN IA		264.8 82.5	273.68 BLH19970407KA	42 53 06.0 91 19 11.0	6.000 100	44.0 391	28.5 Design Homes, Inc.	228.0	243.4	
261A West Salem	WKBH-FM	LIC _CN WI		287.7 105.5	271.62 BLH19970114KB	43 51 02.0 91 12 08.0	3.600 130	40.4 381	26.4 Mississippi Valley Broadca	230.5	242.4	
264C1 Crystal Falls	WOBE	LIC NCX MI		359.1 179.1	296.29 BLH20040213ACA	45 49 16.0 88 02 34.0	100.000 199	8.5 542	64.8 Results Broadcasting Of Ir	287.1	231.4	
263C2 Decorah	KDEC-FM	LIC _CN IA		274.8 92.2	309.41 BLH19910809KC	43 19 28.0 91 47 05.0	30.000 150	76.1 474	51.6 Decorah Broadcasting, Inc.	232.0	256.1	
259C1 Muscatine	KBEA-FM	LIC _C_ IA		236.2 54.1	301.78 BLH20000419ACN	41 36 22.0 90 59 35.0	100.000 265	9.4 481	68.9 Cumulus Licensing Llc	289.5	232.2	
262B1 Champaign	WIXY	LIC _CX IL		182.2 2.1	349.26 BMLH20081215ABB	40 00 45.0 88 08 29.0	13.000 138	106.0 347	44.9 Saga Communications Of Ill	238.1	286.5	
265C3 Tomahawk	1565312	APP NCX WI		332.0 150.8	278.24 BNPH20130724AFV	45 21 08.0 89 39 13.0	11.500 149	3.9 599	38.7 Results Broadcasting Of Rh	273.6	239.0	
263L1 Geneseo	WGRG-LP	LIC _C_ IL		224.1 42.6	260.51 BLL20021022ABD	41 27 10.0 90 09 21.0	0.100 17	8.1 215	5.7 Geneseo Community Radio Gr	249.0	252.5	
263B Kokomo	WWKI	LIC _CN IN		151.1 332.4	341.08 BLH19901120KD	40 27 04.0 86 02 12.0	50.000 143	78.7 401	65.6 Radio License Holding Cbc,	256.7	264.1	
265C3 Tomahawk	1560164	APP _C_ WI		331.2 149.9	299.40 BSFH20130204ACZ	45 30 01.0 89 49 50.0	25.000 100	4.2 553	40.0 Results Broadcasting Of Rh	294.5	259.3	
265C3 Tomahawk	AU9498263	VAC _C_ WI		331.2 149.9	299.40 RM10985	45 30 01.0 89 49 50.0	25.000 100	4.2 553	40.0 Results Broadcasting Of Rh	294.5	259.3	
265C3 Tomahawk	1567696	RSV-A _C_ WI		331.2 149.9	299.40	45 30 01.0 89 49 50.0	25.000 100	4.2 553	40.0 Results Broadcasting Of Rh	294.5	259.3	
259B Frankfort	WSHW	LIC _CN IN		156.3 337.4	330.54 BLH19820419AT	40 25 14.0 86 24 47.0	50.000 140	6.2 388	66.8 Kaspar Broadcasting Co., I	318.7	263.0	
260A Carney	DWMUP	LIC _CX MI		7.0 187.3	272.32 BLH20080321ACX	45 35 11.0 87 33 13.0	0.200 17	1.0 260	6.9 Starboard Media Foundation	270.6	265.4	

Terrain database is 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.

* TRANSLATOR APPLICATION ASSOCIATED WITH THIS LONG FORM 301 APPLICATION.

** No actual interference will be caused to WKKV-FM since the 107.9 DBU Interference Contour will cover any population. See the Technical Statement for more details.

FIGURE 2 - WKKV-FM 67.9 DBU CONTOUR AT SITE
NEW FM TRANSLATOR, MILWAUKEE, WISCONSIN, CH. 262D

Coverage Study - NGDC 30 SEC
04-01-2013

WKKV-FM CH264 B , 50.0 kW, 152.0M HAAT, 386.0M COR AMSL
Service Contour = 68 dBu. Population = 1,510,425

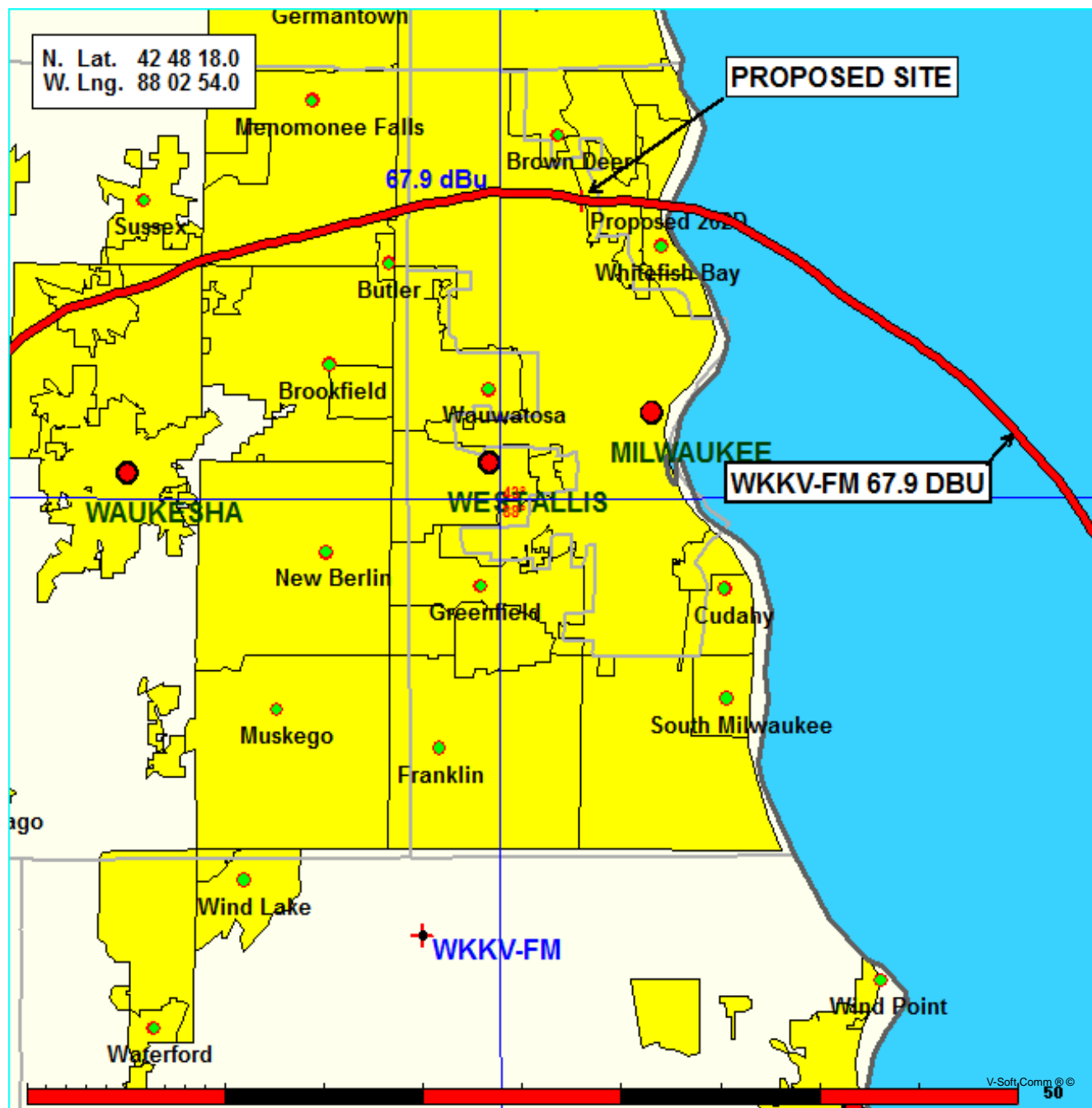
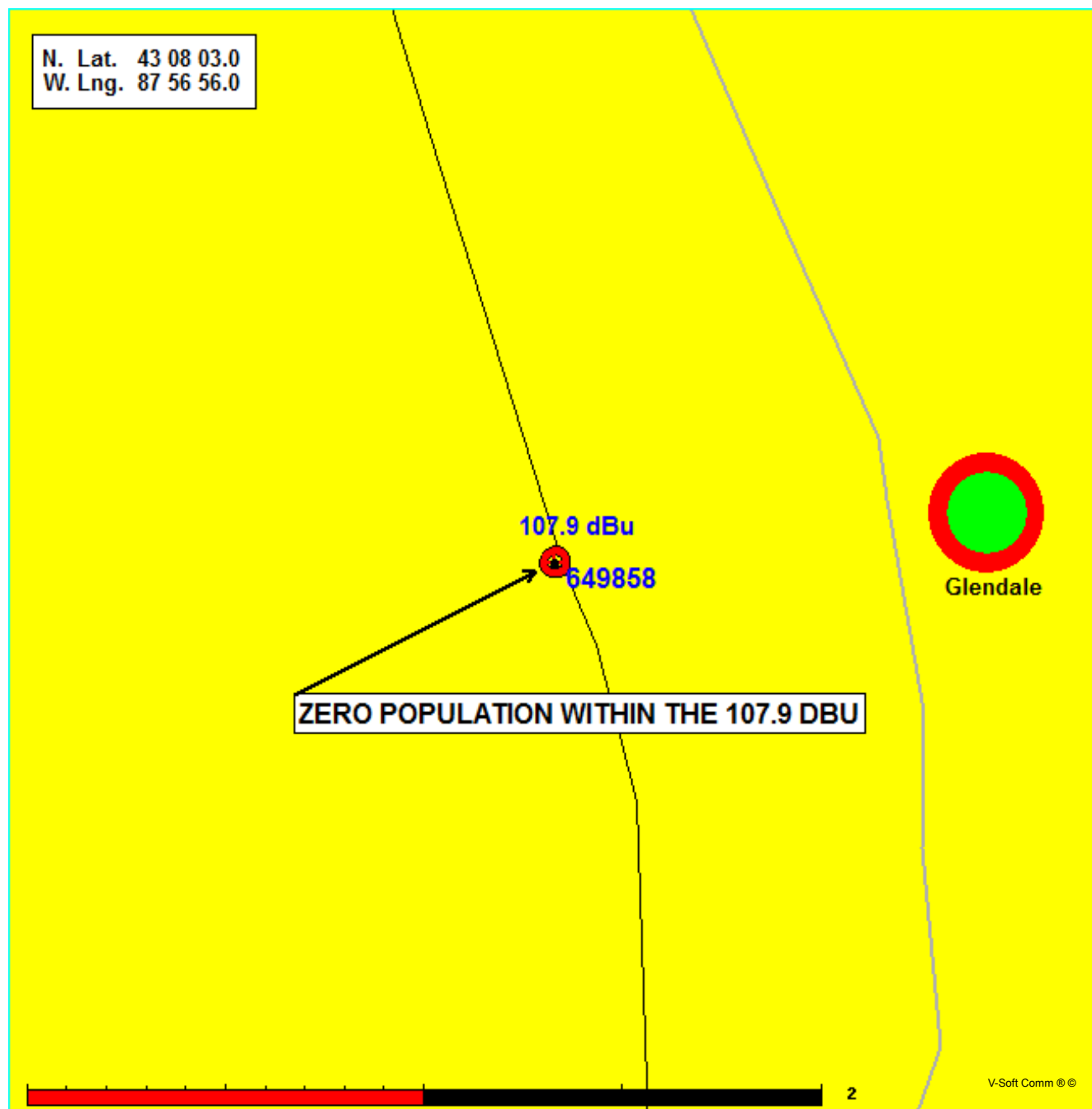
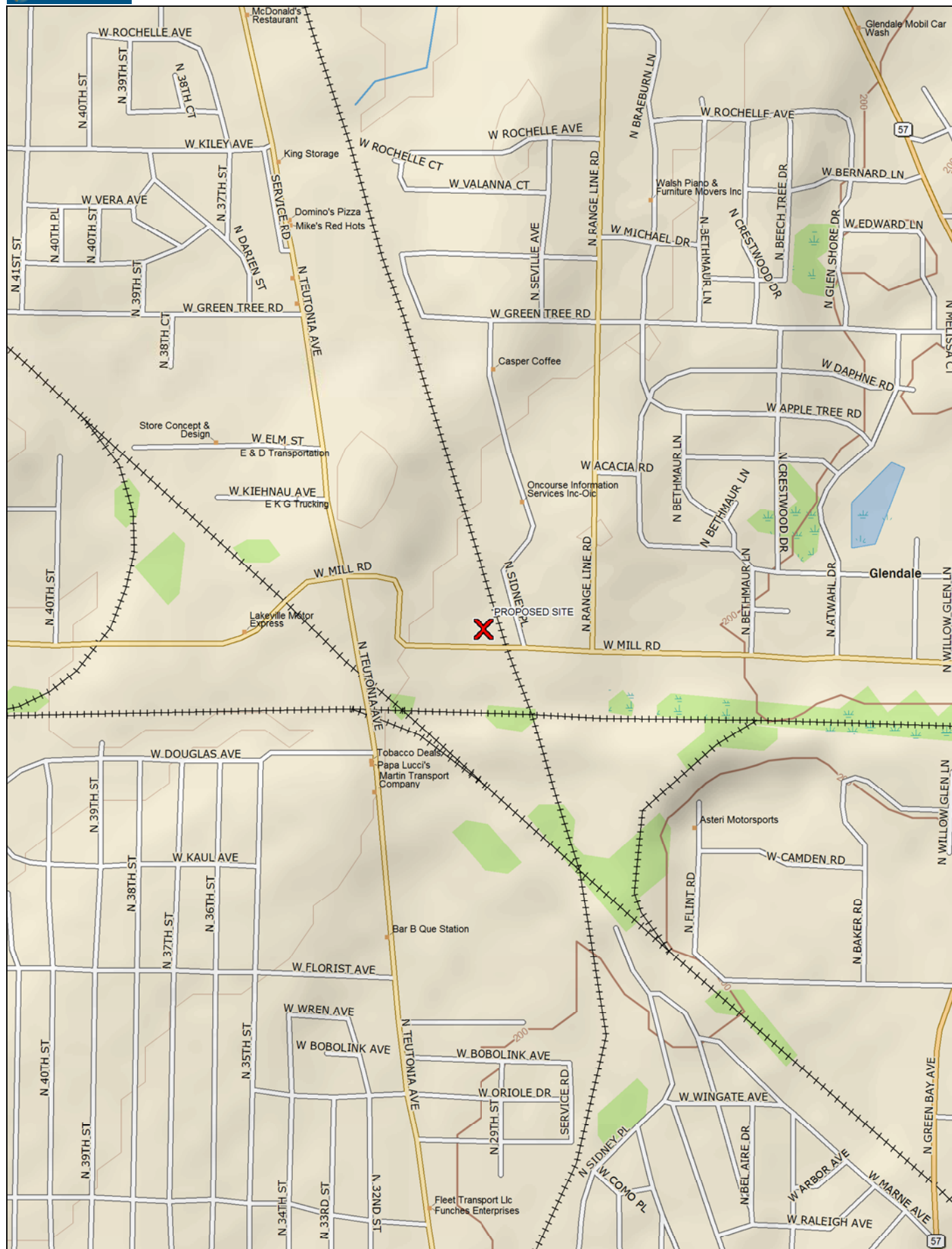


FIGURE 3 - PREDICTED 107.9 DBU CONTOUR
NEW FM TRANSLATOR, MILWAUKEE, WISCONSIN, CH. 262D

Coverage Study - NGDC 30 SEC
04-01-2013

649858 CH262 D , 0.001 kW, 31.8M HAAT, 238.0M COR AMSL
Interference Contour = 107.9 dBu. Population = 0





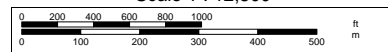
Data use subject to license.

© DeLorme. Topo North America™ 9.

www.delorme.com



Scale 1 : 12,800



1 cm = 128.0 m Data Zoom 14-0



To see all the details that are visible on the screen, use the "Print" link next to the map.



Contour.out

N. Lat. = 430803.0 W. Lng. = 875656.0
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - NGDC 30 SEC

FIGURE 6 TABULATION OF DISTANCES TO CONTOURS

Azi.	AV EL	HAAT	dBk	60-F5	54-F1	107.9-F1
000	206.0	32.0	-30.00	1.88	2.61	0.03
010	207.0	31.0	-30.00	1.85	2.57	0.03
020	193.1	44.9	-30.00	2.25	3.08	0.03
030	186.5	51.5	-30.00	2.40	3.32	0.03
040	184.5	53.5	-30.00	2.44	3.39	0.03
050	184.0	54.0	-30.00	2.45	3.41	0.03
060	182.3	55.7	-30.00	2.48	3.46	0.03
070	180.6	57.4	-30.00	2.51	3.51	0.03
080	180.2	57.8	-30.00	2.52	3.52	0.03
090	178.6	59.4	-30.00	2.55	3.57	0.03
100	178.4	59.6	-30.00	2.55	3.57	0.03
110	179.1	58.9	-30.00	2.54	3.55	0.03
120	182.1	55.9	-30.00	2.48	3.46	0.03
130	186.7	51.3	-30.00	2.40	3.32	0.03
140	187.2	50.8	-30.00	2.39	3.30	0.03
150	187.5	50.5	-30.00	2.38	3.29	0.03
160	194.1	43.9	-30.00	2.22	3.04	0.03
170	199.7	38.3	-30.00	2.06	2.84	0.03
180	201.9	36.1	-30.00	2.00	2.77	0.03
190	203.8	34.2	-30.00	1.94	2.70	0.03
200	214.5	23.5	-30.00	1.82	2.54	0.03
210	220.4	17.6	-30.00	1.82	2.54	0.03
220	219.3	18.7	-30.00	1.82	2.54	0.03
230	224.3	13.7	-30.00	1.82	2.54	0.03
240	229.3	8.7	-30.00	1.82	2.54	0.03
250	234.0	4.0	-30.00	1.82	2.54	0.03
260	238.3	-0.3	-30.00	1.82	2.54	0.03
270	239.3	-1.3	-30.00	1.82	2.54	0.03
280	241.6	-3.6	-30.00	1.82	2.54	0.03
290	237.7	0.3	-30.00	1.82	2.54	0.03
300	238.9	-0.9	-30.00	1.82	2.54	0.03
310	234.9	3.1	-30.00	1.82	2.54	0.03
320	229.3	8.7	-30.00	1.82	2.54	0.03
330	223.3	14.7	-30.00	1.82	2.54	0.03
340	213.0	25.0	-30.00	1.82	2.54	0.03
350	205.5	32.5	-30.00	1.89	2.63	0.03

Ave El= 206.31 M HAAT= 31.69 M AMSL= 238

FIGURE 7 - DIRECTIONAL ANTENNA DATA

1549746 SCALA CL-H YAGI

08-25-2013

RMS(V) = .466

Graph is Relative Field

Azi	Field	dBk	kW
000	0.030	-49.666	0.000
010	0.030	-49.666	0.000
020	0.030	-49.666	0.000
030	0.030	-49.666	0.000
040	0.030	-49.666	0.000
050	0.030	-49.666	0.000
060	0.030	-49.666	0.000
070	0.050	-45.229	0.000
080	0.190	-33.633	0.000
090	0.390	-27.387	0.002
100	0.544	-24.496	0.004
110	0.690	-22.431	0.006
120	0.817	-20.964	0.008
130	0.916	-19.970	0.010
140	0.980	-19.384	0.012
150	1.000	-19.208	0.012
160	0.980	-19.384	0.012
170	0.916	-19.970	0.010
180	0.817	-20.964	0.008
190	0.690	-22.431	0.006
200	0.544	-24.496	0.004
210	0.390	-27.387	0.002
220	0.190	-33.633	0.000
230	0.050	-45.229	0.000
240	0.030	-49.666	0.000
250	0.030	-49.666	0.000
260	0.030	-49.666	0.000
270	0.030	-49.666	0.000
280	0.030	-49.666	0.000
290	0.030	-49.666	0.000
300	0.030	-49.666	0.000
310	0.030	-49.666	0.000
320	0.030	-49.666	0.000
330	0.030	-49.666	0.000
340	0.030	-49.666	0.000
350	0.030	-49.666	0.000

