

Channel Study

REFERENCE CH# 268D - 101.5 MHz, Pwr= 0.25 kW DA, HAAT= 365.9 M, COR= 545 M DISPLAY DATES
41 53 20.6 N. Average Protected F(50-50)= 24.8 km DATA 02-07-13
87 37 35.8 W. Standard Directional SEARCH 02-08-13

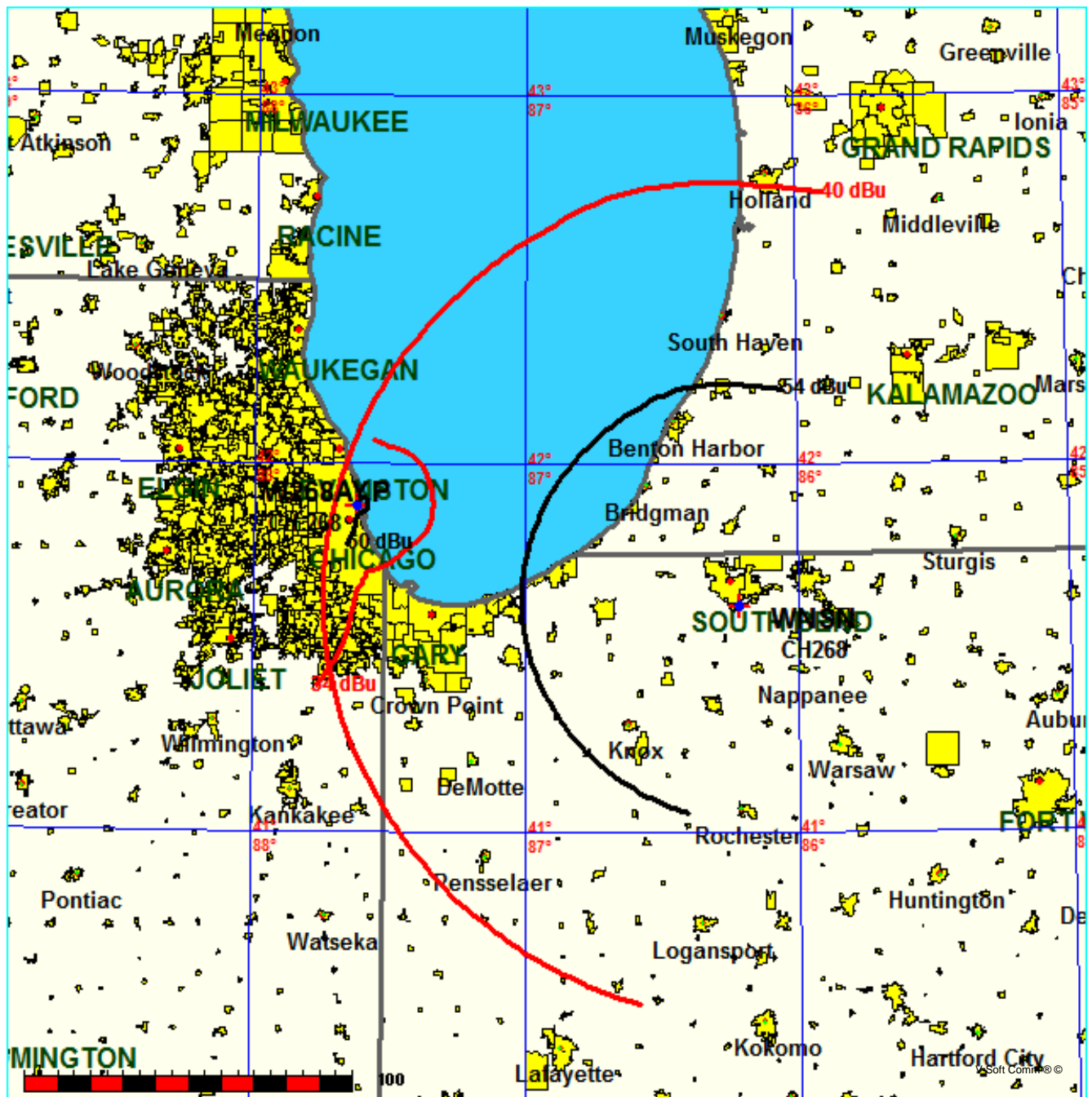
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
270B Skokie	WTMX	LIC	CX IL	213.2 33.2	1.35 BLH20020722ABF	41 52 44.0 87 38 08.0	4.200 476	4.0 657	66.2 Chicago Fcc License	-21.8*< -66.2*<	
266B Chicago	WIQI	LIC	CX IL	15.1 195.1	1.13 BMLH20110629BQS	41 53 56.0 87 37 23.0	5.700 425	4.5 606	66.0 Merlin Media License Llc	-6.3*< -65.0*<	
268B South Bend	WNSN	LIC	CN IN	104.1 285.0	121.08 BMLH19900206KG	41 37 00.0 86 13 01.0	13.000 296	127.5 536	66.6 Wsbtt, Inc.	-10.0*< 31.1	
268D Seward Township	W268AY	LIC	C IL	232.2 51.7	70.95 BLFT20070803ADT	41 29 47.0 88 17 56.0	0.019 89	20.2 266	6.1 Educational Media Foundati	27.9 -5.4	
268L1 Lake Villa	WLGS-LP	LIC	C IL	326.4 146.1	71.22 BLL20050525AJG	42 25 18.0 88 06 23.0	0.100 30	18.6 268	5.6 Calvary Chapel Of Lake Vil	40.0 22.8	
215A Glen Ellyn	WDCB	LIC	CN IL	262.5 82.2	38.25 BMLED19840113AF	41 50 36.0 88 05 00.0	5.000 91	39.5 314	26.0 College Of Du Page, Distri	9.5R 28.8M	
268B Bloomington	WBNQ	LIC	NCN IL	216.4 35.5	197.58 BLH19971103KB	40 27 01.0 89 00 42.0	50.000 142	135.2 375	62.5 Cumulus Licensing Llc	42.5 54.8	
268B Sauk City	WIBA-FM	LIC	CX WI	310.3 129.0	203.53 BLH20110802AAB	43 03 21.0 89 32 06.0	12.000 309	124.1 609	64.7 Capstar Tx Llc	61.2 62.9	
269A Kentland	WIVR	LIC	C IN	178.3 358.4	113.84 BLH20010816AAD	40 51 52.0 87 35 14.0	3.200 138	43.5 339	28.6 Milner Broadcasting Enterp	66.1 78.3	

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in
KM
Contour distances are on direct line to and from reference station. 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.
< = Contour Overlap

FMCommander Single Allocation Study - 02-08-2013 - NGDC 30 SEC
W268AY.P's Overlaps (In= -10.04 km, Out= 31.1 km)

W268AY.P CH 268 D DA
Lat= 41 53 20.6, Lng= 87 37 35.8
0.25 kW 365.9 M HAAT, 545 M COR
Prot.= 60 dBu, Intef.= 34 dBu

WNSN CH 268 B BMLH19900206KG
Lat= 41 37 00.0, Lng= 86 13 01.0
13.0 kW 296 M HAAT, 536 M COR
Prot.= 54 dBu, Intef.= 40 dBu

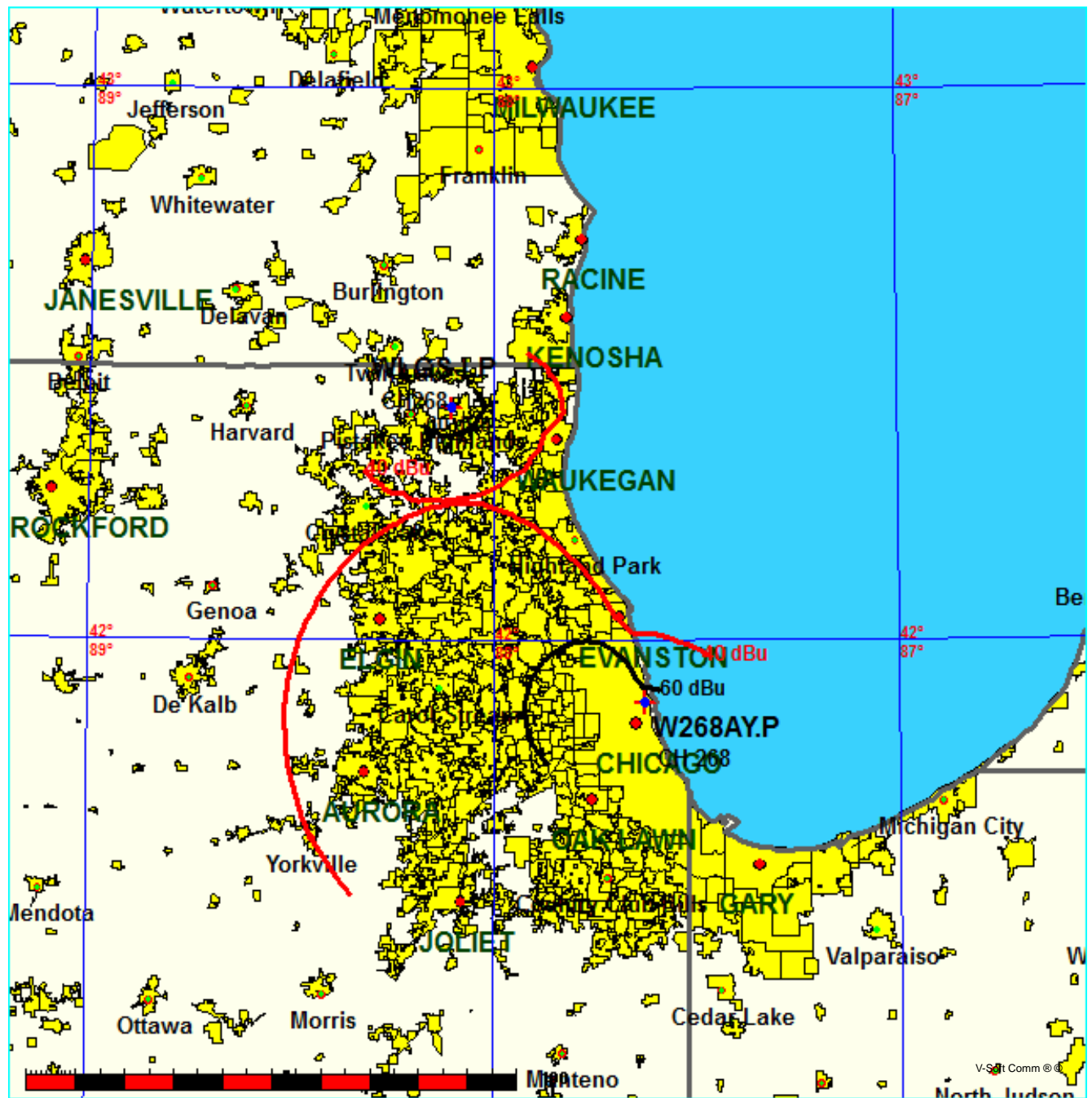


Educational Media Foundation

FMCommander Single Allocation Study - 02-08-2013 - NGDC 30 SEC
W268AY.P's Overlaps (In= 39.96 km, Out= 22.84 km)

W268AY.P CH 268 D DA
Lat= 41 53 20.6, Lng= 87 37 35.8
0.25 kW 365.9 M HAAT, 545 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WLGS-LP CH 268 L1 BLL20050525AJG
Lat= 42 25 18.0, Lng= 88 06 23.0
0.1 kW 29.761 M HAAT, 268 M COR
Prot.= 60 dBu, Intef.= 40 dBu



Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 54dBu contour of second adjacent channel station WTMX, channel 270B, Skokie, IL. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for W268AY.P:	250 watts
The proposed COR for W268AY.P:	363 meters
WTMX F(50/50) contour at proposed site:	110.5dBu
The F(50/10) contour of proposed W227BR:	150.5dBu

The predicted distance to the 150.5dbu interfering contour is 3.3 meters.

As can be seen in Exhibit 13–A2, there are no regularly occupied structures near enough to the antenna and there are no structures which are tall enough to enter the 3.3 meter aperture.

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

Compliance with C.F.R. 74.1204

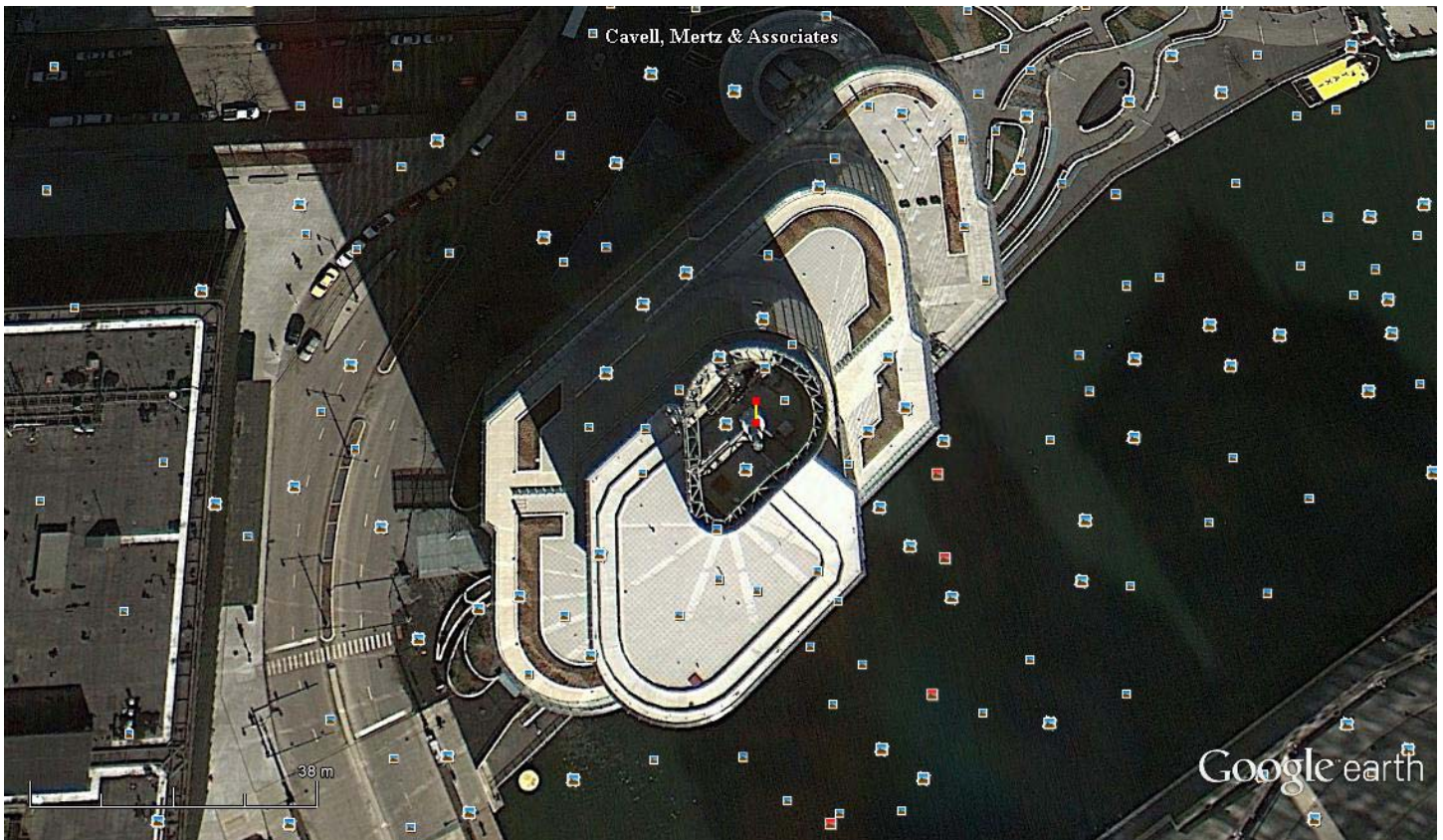
The proposed FM Translator is also located within the protected 54dBu contour of second adjacent channel station WIQI, channel 266B, Chicago, IL. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for W268AY.P:	250 watts
The proposed COR for W268AY.P:	363 meters
WIQI F(50/50) contour at proposed site:	113.4dBu
The F(50/10) contour of proposed W227BR:	153.4dBu

The predicted distance to the 153.4dbu interfering contour is 2.4 meters.

As can be seen in Exhibit 13–A2, there are no regularly occupied structures near enough to the antenna and there are no structures which are tall enough to enter the 2.4 meter aperture.

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.



Google earth

feet
meters

300
90



NAD27

41 53' 20.6" N

87 37' 35.8" W

Marker: 3.3M at zero degrees true north