

Channel Study

REFERENCE		CH# 254D - 98.7 MHz, Pwr= 0.055 kW, HAAT=40.0M, COR= 308 M								DISPLAY DATES	
39 45 46 N.		Average Protected F(50-50)= 5.6 km								DATA	01-04-07
84 05 11 W.		Ave. F(50-10) 40 dBu= 18.4 54 dBu= 7.9 80 dBu= 1.8 100 dBu= .5								SEARCH	01-05-07
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*	
CITY	STATE		<--	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap in km)		
254D	W254BA	CP	C	0.0	0.00	39 45 46	0.019	323	4.7	-19.83*	-21.00*
Riverside	OH			0.0	BMPFT20040917ABS	84 05 11	48	14.8	Educational Media Foundati		
256B	WHKO	LIC	C	257.0	14.22	39 44 02	50.000	588	81.1	-0.87	-67.94*
Dayton	OH			76.9	BMLH20010810AAV	84 14 53	324	8.7	Cxr Holdings, L.l.c.		
254D	W254BJ	CP	C	41.2	28.17	39 57 11	0.012	384	6.3	1.16	1.65
Springfield	OH			221.4	BMPFT20060802ADU	83 52 07	107	21.0	Spirit Communications, Inc		
252D	WKET	LIC	HN	221.1	9.84	39 41 46	0.013	341	4.9	3.49	4.42
Kettering	OH			41.0	BLD19851218KD	84 09 43	61	1.5	Kettering City School Dist		
251D	WUDR	LIC	CX	281.8	13.41	39 47 14	0.013	296	3.7	6.75	9.19
Dayton	OH			101.7	BLD20060228AAA	84 14 23	37	0.3	University Of Dayton		
253B	WRRM	LIC	CY	209.2	81.48	39 07 19	18.000	462	67.6	-2.99	4.10
Cincinnati	OH			28.9	BLH19850415LB	84 32 52	282	79.6	Wrrm Lico, Inc		
251D	W251BA	CP	C	148.3	51.86	39 21 55	0.019	412	6.9	46.15	44.47
Wilmington	OH			328.5	BNPFT20030806ADM	83 46 10	101	0.3	Educational Media Foundati		
252A	WPKO-F	LIC	CX	23.9	73.63	40 22 05	1.750	491	25.0	64.91	48.15
Bellefontaine	OH			204.1	BLH20040429AAS	83 44 02	141	2.1	V-teck Communications, Inc		
251D	AP4392	APP	C	209.9	60.07	39 17 38	0.013	302	4.7	54.99	54.86
Sharonville	OH			29.7	BNPFT20030317AJW	84 26 06	56	0.3	The President & Trustees O		
251D	W251BC	LIC	C	353.3	60.26	40 18 06	0.055	353	5.6	54.91	54.15
Sidney	OH			173.2	BLFT20060316AGC	84 10 12	40	0.5	The Cedarville University		
252A	WZZY	LIC	CN	296.9	81.27	40 05 23	3.000	444	22.5	72.19	58.23
Winchester	IN			116.3	BLH19840716CZ	84 56 13	86	2.2	Rodgers Broadcasting Corpo		
254A	WQME	LIC	CN	280.5	141.16	39 58 59	4.500	390	26.4	52.71	92.94
Anderson	IN			99.5	BLH19970512KF	85 42 41	99	81.9	Anderson University, Inc.		
255A	WXMG	LIC	ZCN	75.3	93.48	39 58 16	1.125	396	21.9	56.07	64.68
Upper Arlington	OH			256.0	BLH19970501KB	83 01 40	133	32.6	Blue Chip Broadcasting Lic		
254A	WYRO	LIC	CN	117.5	145.42	39 08 59	6.000	342	29.2	51.91	97.34
Mcarthur	OH			298.5	BLD19941003KB	82 35 36	107	87.8	Davis Broadcasting Media,		

Terrain database is NGDC 30 SEC

ERP and HAAT on direct-line with reference station.

\*\*\*affixed to 'IN' or 'Out' values = site inside protected contour.

**Compliance with C.F.R. 74.1204**

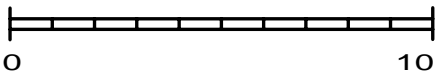
The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WHKO, channel 256B, Dayton, OH. The predicted F(50-50) field strength of WHKO at the proposed translator site is 91.6 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 131.6 dBu. This interfering contour extends approximately 13.7 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 21 meter level on a 61 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12E), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 13.7 meter interference aperture.

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



Scale in km



W254BA 254D .055kW 307M AMSL

N. Lat. 39 45 46 W. Lng. 84 05 11

W254BA vs. WHKO

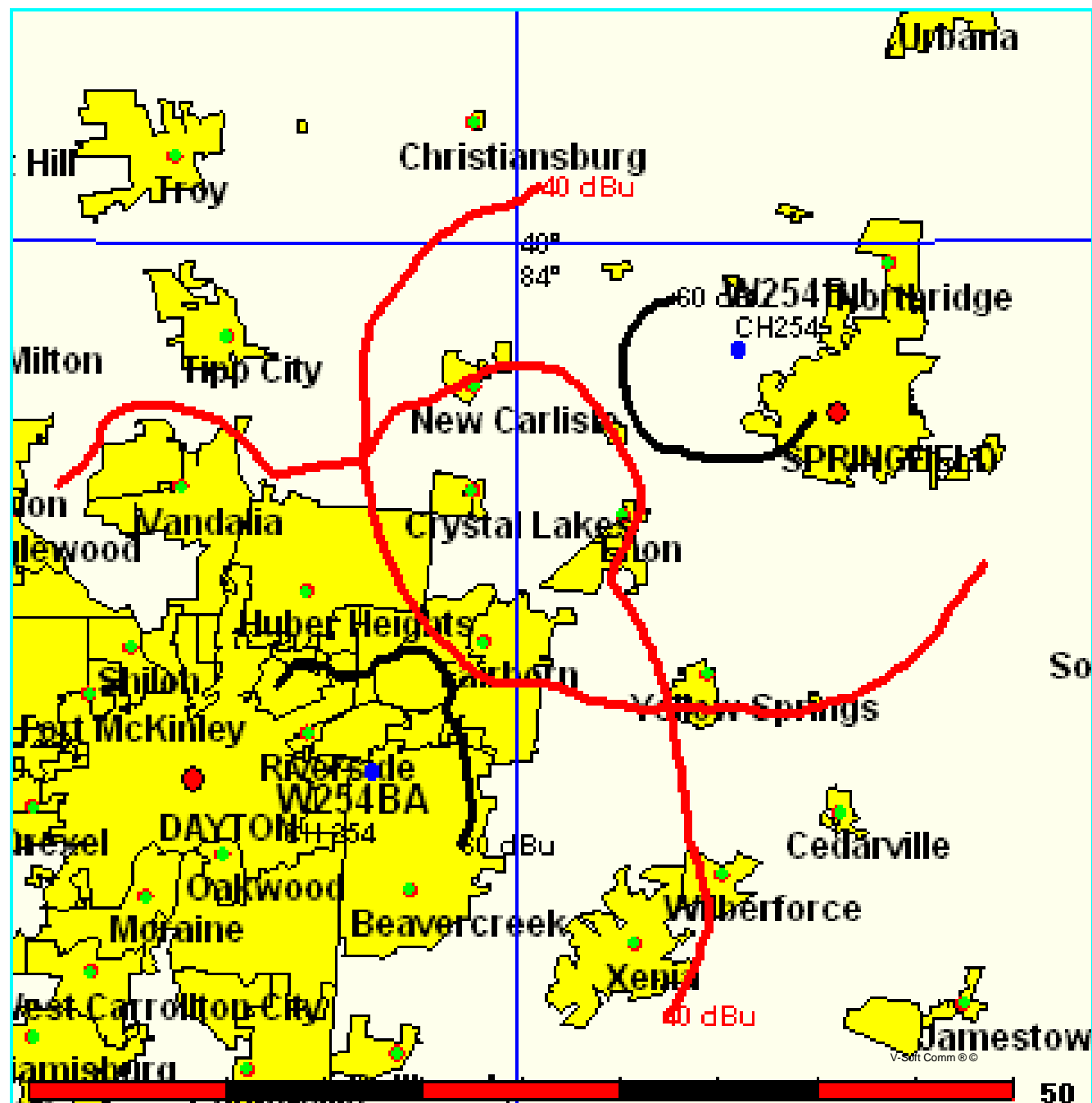
EMF - 1/05

FMCommander Allocation Study  
1-05-2007

W254BA CH 254 D  
0.055 kW 308 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

W254BJ CH 254 D BMPFT20060802ADU  
0.012 kW, 384 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

Scale = 1:500,000

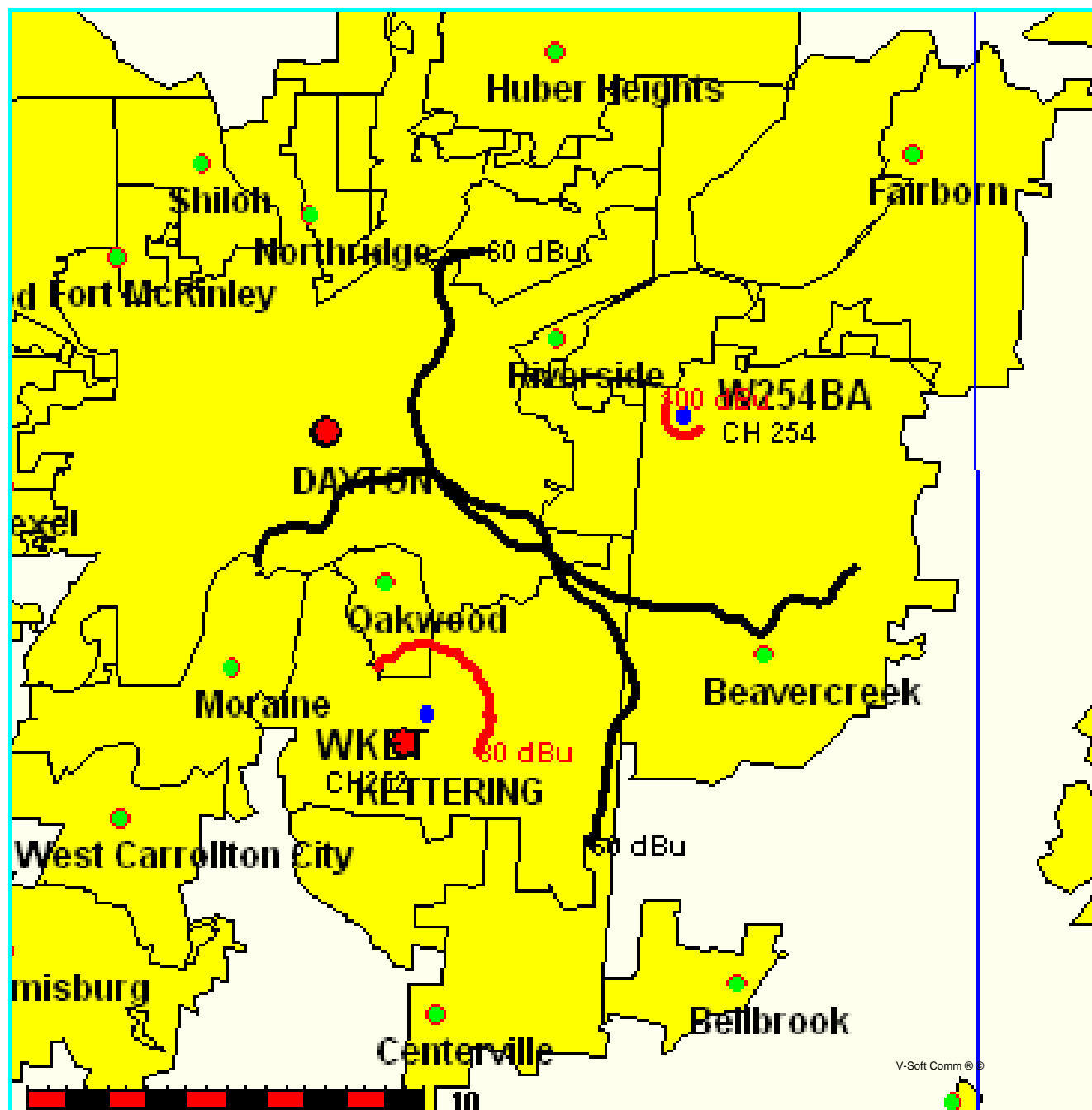


FMCommander Allocation Study  
1-05-2007

W254BA CH 254 D  
0.055 kW 308 M COR  
Prot. = 60 dBu  
Intef. = 100 dBu

WKET CH 252 D BLED19851218KD  
0.013 kW, 341 M COR  
Prot. = 60 dBu  
Intef. = 80 dBu

Scale = 1:250,000

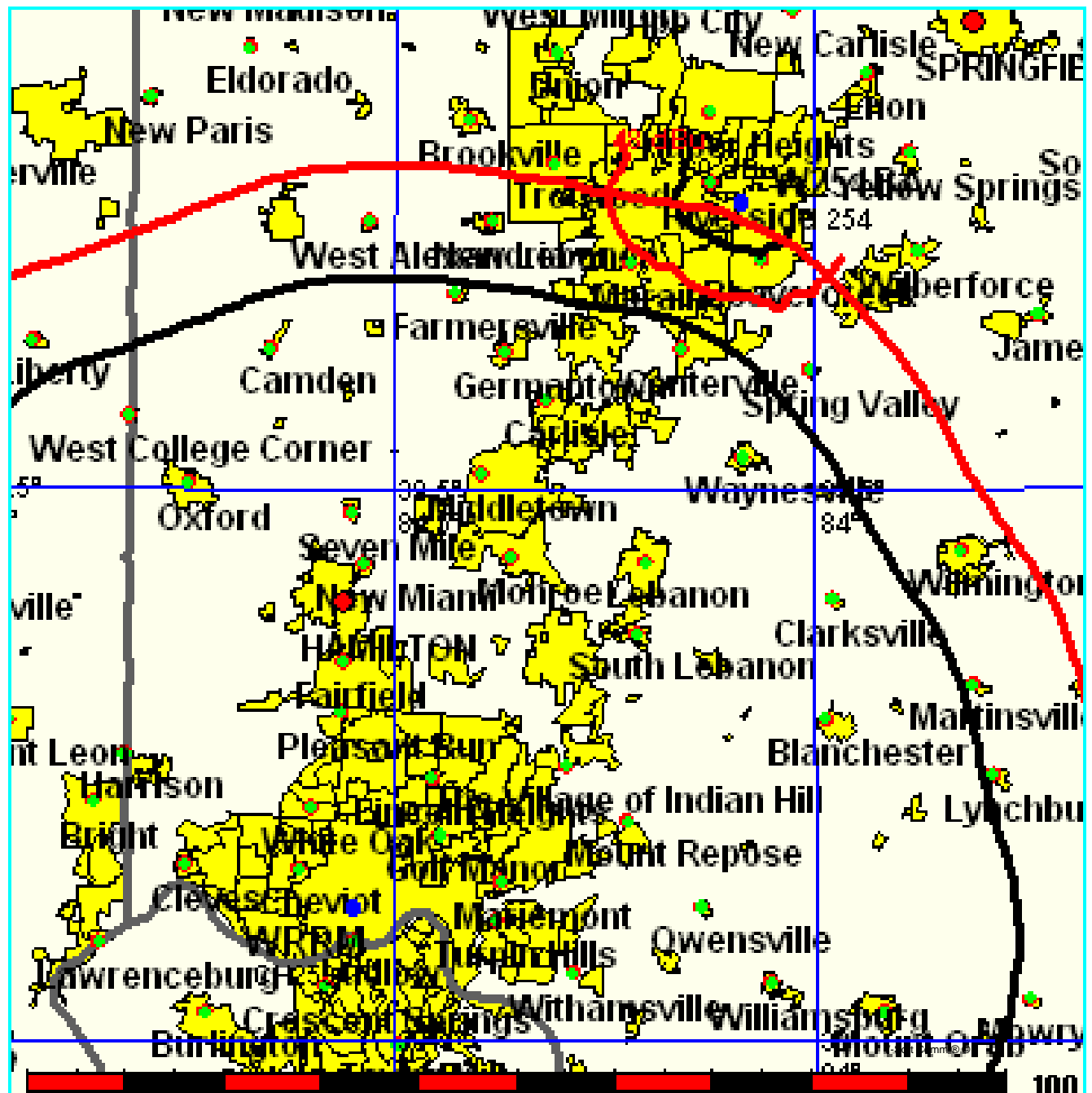


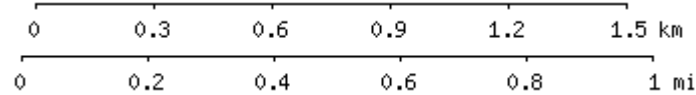
FMCommander Allocation Study  
1-05-2007

W254BA CH 254 D  
0.055 kW 308 M COR  
Prot. = 60 dBu  
Intef. = 48 dBu

WRRM CH 253 B BLH19850415LB  
18.0 kW, 462 M COR  
Prot. = 54 dBu  
Intef. = 54 dBu

Scale = 1:1,000,000





39° 45' 46"N, 84° 05' 11"W (NAD27)  
**USGS Fairborn (OH) Quadrangle**  
 Projection is UTM Zone 16 NAD83 Datum



M=-5.632  
G=1.865