

Channel Study

REFERENCE		CH# 245D - 96.9 MHz, Pwr= 0.01 kW, HAAT= 187.7 M, COR= 410 M								DISPLAY DATES	
39 21 11.0 N.		Average Protected F(50-50)= 8.0 km								DATA 09-15-08	
84 25 02.0 W.										SEARCH 09-15-08	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
243B Lebanon	WFTK	LIC OH	C OH	90.0 270.0	7.95 BMLH20020320ABO	39 21 11.0 84 19 30.0	19.500 247	5.7 474	64.7 Wvae Lico, Inc.	-5.22	-57.23*
245A Troy	WOKL	CP OH	ZCX OH	16.2 196.4	68.73 BPED20070223AHC	39 56 49.0 84 11 29.0	6.000 95	84.4 373	26.5 Educational Media Foundati	-23.68*	15.26
245D Forest Park	W245AJ	LIC OH	C OH	197.3 17.3	10.83 BLFT20070321ADJ	39 15 36.0 84 27 17.0	0.006	8.9 240	2.8 Educational Media Foundati	-6.74	-20.80
245D Forest Park	W245AJ	CP OH	C OH	205.7 25.6	17.83 BPFT20070824AFE	39 12 30.0 84 30 25.0	0.010	23.5 351	7.0 Educational Media Foundati	-13.96*	-16.88
245C2 Paris	WGKS	LIC KY	CN KY	177.7 357.7	136.38 BLH19910606KI	38 07 32.0 84 21 12.0	50.000 150	138.1 433	52.6 L.m. Communications, Inc.	-10.09*	55.87
247A Fort Thomas	WYGY	LIC KY	CX KY	208.2 28.1	19.25 BLH20051115ADD	39 12 01.0 84 31 22.0	2.550 155	2.5 373	28.8 Bonnevillie Holding Company	8.51	-9.73*
247C3 Fort Thomas	WYGY	CP KY	CX KY	192.7 12.6	37.40 BPH20070615ABV	39 01 27.8 84 30 44.2	25.000 100	4.9 322	45.4 Bonnevillie Holding Company	23.80	-8.17*
245A Troy	WOKL	LIC OH	ZC OH	14.4 194.5	77.41 BMLED20030619AAC	40 01 41.0 84 11 28.0	3.000 96	72.3 380	22.8 Educational Media Foundati	-2.91	27.51
246D Dayton	629671	APP OH	C OH	18.6 198.7	43.53 BNPFT20030313AYK	39 43 28.0 84 15 18.0	0.010	15.0 577	10.6 Educational Media Foundati	20.58	21.53
246D Dayton	634402	APP OH	C OH	23.0 203.2	48.88 BNPFT20030317AJV	39 45 28.0 84 11 36.0	0.021	7.0 298	5.0 The President & Trustees O	33.97	32.61
246B Columbus	WBNS-FM	LIC OH	CN OH	59.5 240.4	137.57 BLH19850125LM	39 58 16.0 83 01 40.0	20.500 238	75.5 484	64.0 Radiohio, Incorporated	54.55	58.52
246D Hillsboro	639761	APP OH	C OH	104.4 284.9	71.90 BNPFT20030313AYN	39 11 25.0 83 36 39.0	0.055	9.9 379	6.9 James L. Orebaugh	54.74	54.72
246D Hillsboro	1258273	APP OH	C OH	104.4 284.9	71.92 BNPFT20080620ACQ	39 11 25.0 83 36 38.0	0.038	7.5 362	5.4 James L. Orebaugh	57.16	56.28
246B Shelbyville	WLHK	LIC IN	CX IN	284.7 103.7	142.96 BMLH20070501AGZ	39 40 06.0 86 01 44.0	23.000 223	77.4 463	65.3 Emmis Radio License, Llc	57.31	60.44
248D Batesville	W248AF	LIC IN	C IN	265.9 85.4	69.27 BLFT20070518ABA	39 18 23.0 85 13 06.0	0.120	0.8 308	5.9 Good Shepherd Radio, Inc	60.08	63.15
244A Madison	WORX-FM	LIC IN	C IN	230.5 49.9	106.24 BLH19990312KD	38 44 32.0 85 21 43.0	1.050 168	37.4 387	24.9 Dubois County Broadcasting	61.10	70.32
245L1 West Union	WUHS-LP	LIC OH		129.5 310.0	93.88 BLL20031021AAB	38 48 49.0 83 34 54.0	0.080 34	17.4 279	5.3 West Union High School	69.12	63.75
248A Greenfield	WVNU	LIC OH	CN OH	85.9 266.5	91.80 BLH19980729KE	39 24 28.0 83 21 15.0	2.300 164	2.4 450	27.2 Southern Ohio Broadcasting	81.87	64.42
244D Springfield	W244BR	LIC OH	C OH	34.8 215.2	82.65 BLFT20070523ACS	39 57 44.0 83 51 49.0	0.017	10.0 396	7.1 Educational Media Foundati	64.92	64.53

Terrain database is NGDC 30 SEC Distance + R = 73.215 or FCC spacings in KM, Distance + M = Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone = 1. With 3rd Adj
 Channels.

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.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WFTK, channel 243B, Lebanon, CA. The predicted F(50-50) field strength of WFTK at the proposed translator site is 94.9 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 134.9 dBu. This interfering contour extends approximately 4.0 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 142 meter level on a 144 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C) which indicates a lack of structures near the proposed tower which could be tall enough to enter the 4.0 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.

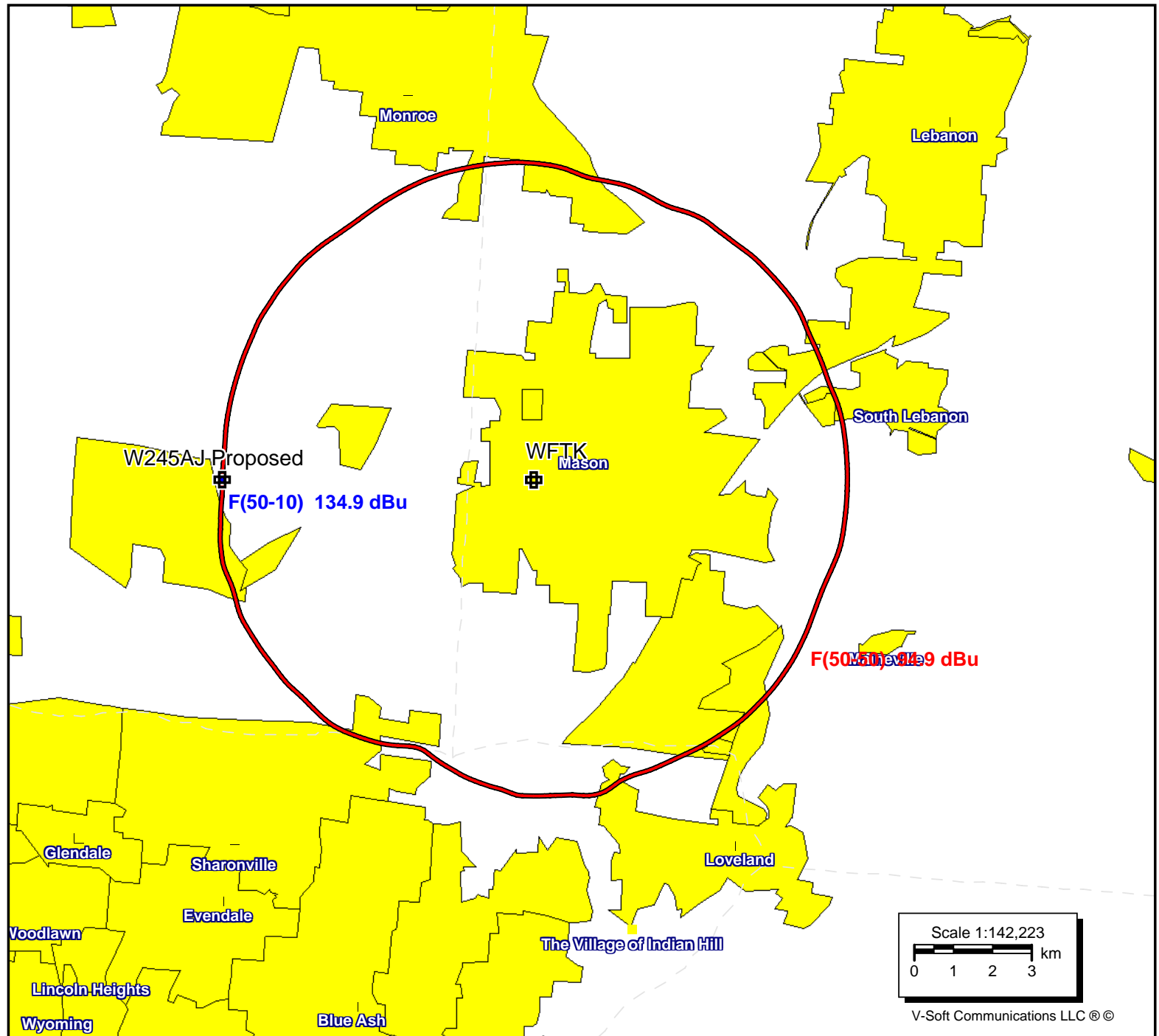
W245AJ Proposed

Latitude: 39-21-11 N
Longitude: 084-25-02 W
ERP: 0.01 kW
Channel: 245
Frequency: 96.9 MHz
AMSL Height: 410.0 m
Elevation: 268.0 m
Horiz. Pattern: Omni
Prop Model:

WFTK

BMLH20020320ABO
Latitude: 39-21-11 N
Longitude: 084-19-30 W
ERP: 19.50 kW
Channel: 243
Frequency: 96.5 MHz
AMSL Height: 474.0 m
Elevation: 251.0 m
Horiz. Pattern: Omni
Prop Model:

■ W245AJ Proposed
■ WFTK



Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WYGY, channel 247A, Fort Thomas, KY (BLH20051115ADD). The predicted F(50-50) field strength of WYGY at the proposed translator site is 67.6 dBu, (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 107.6 dBu. This interfering contour extends approximately 92.3 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 142 meter level on a 144 meter tower).

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WYGY, channel 247C3, Fort Thomas, KY (BPH20070615ABV). The predicted F(50-50) field strength of WYGY at the proposed translator site is 64.1 dBu, (see Exhibit 12B-2). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 104.1 dBu. This interfering contour extends approximately 138.1 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 142 meter level on a 144 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C) which indicates a lack of structures near the proposed tower which could be tall enough to enter either the 92.3 or 138.1 meter interference apertures.

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

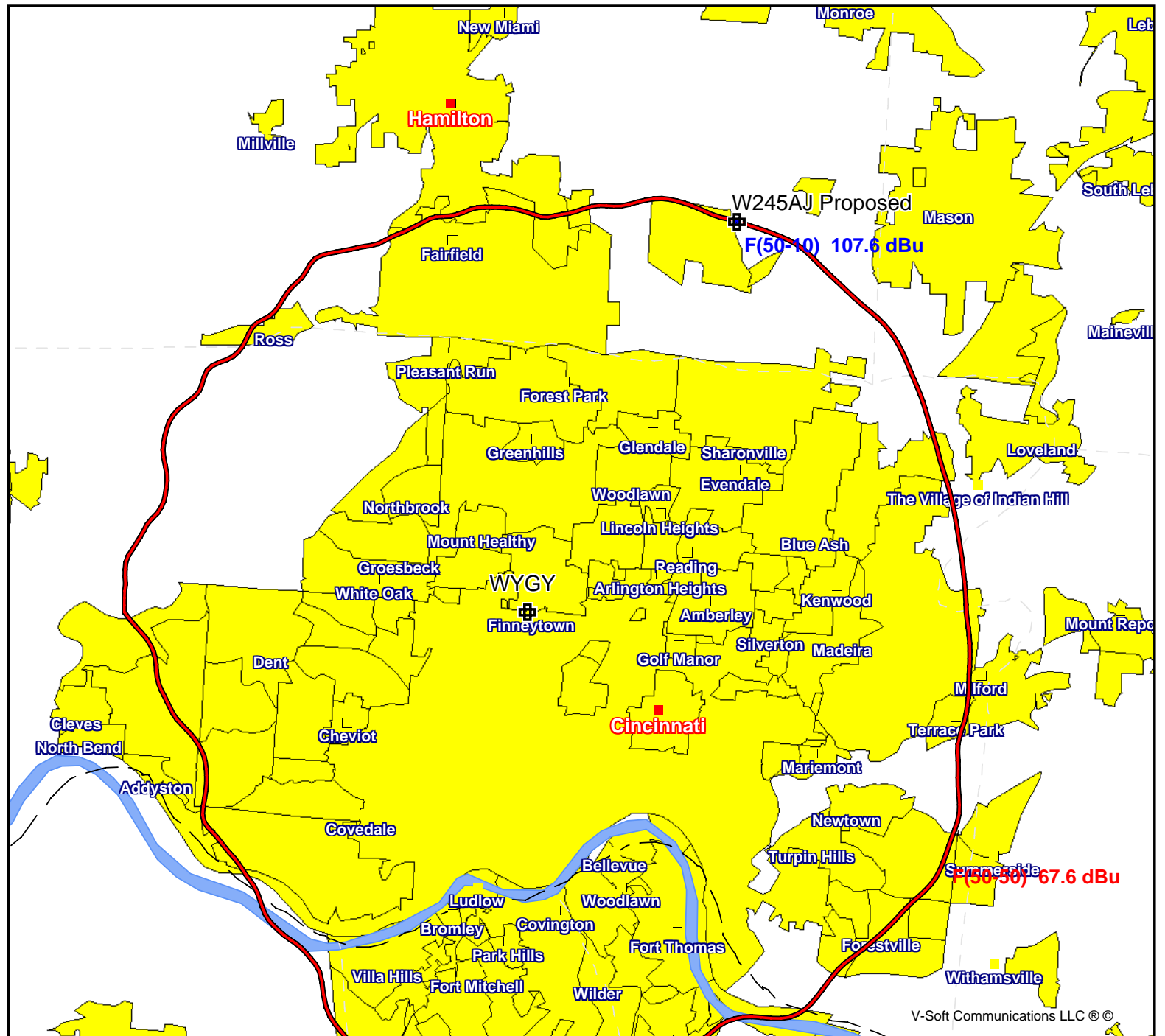
W245AJ Proposed

Latitude: 39-21-11 N
Longitude: 084-25-02 W
ERP: 0.01 kW
Channel: 245
Frequency: 96.9 MHz
AMSL Height: 410.0 m
Elevation: 268.0 m
Horiz. Pattern: Omni
Prop Model:

WYGY

BLH20051115ADD
Latitude: 39-12-01 N
Longitude: 084-31-22 W
ERP: 2.55 kW
Channel: 247
Frequency: 97.3 MHz
AMSL Height: 373.0 m
Elevation: 273.0 m
Horiz. Pattern: Omni
Prop Model:

■ W245AJ Proposed
■ WYGY



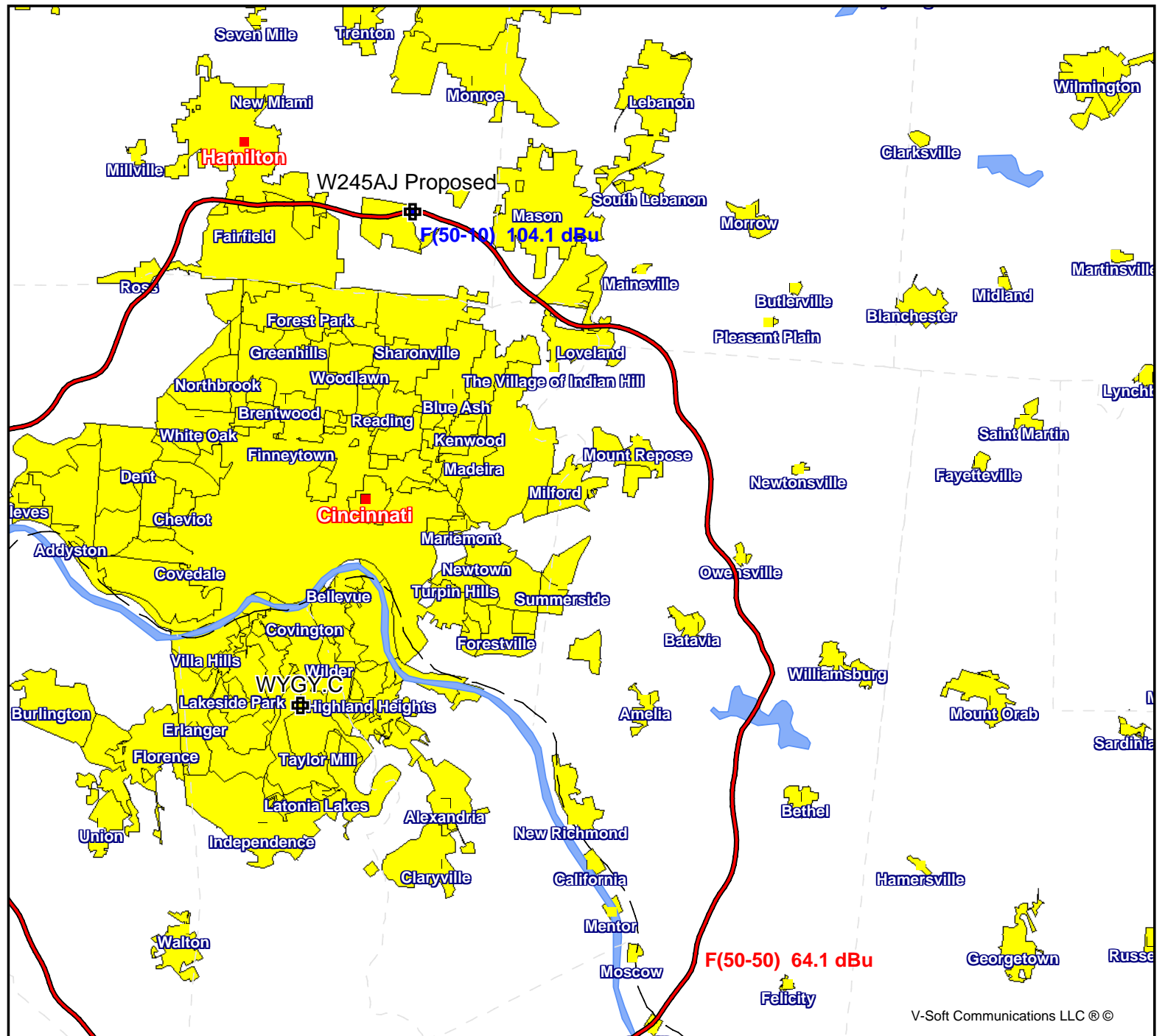
W245AJ Proposed

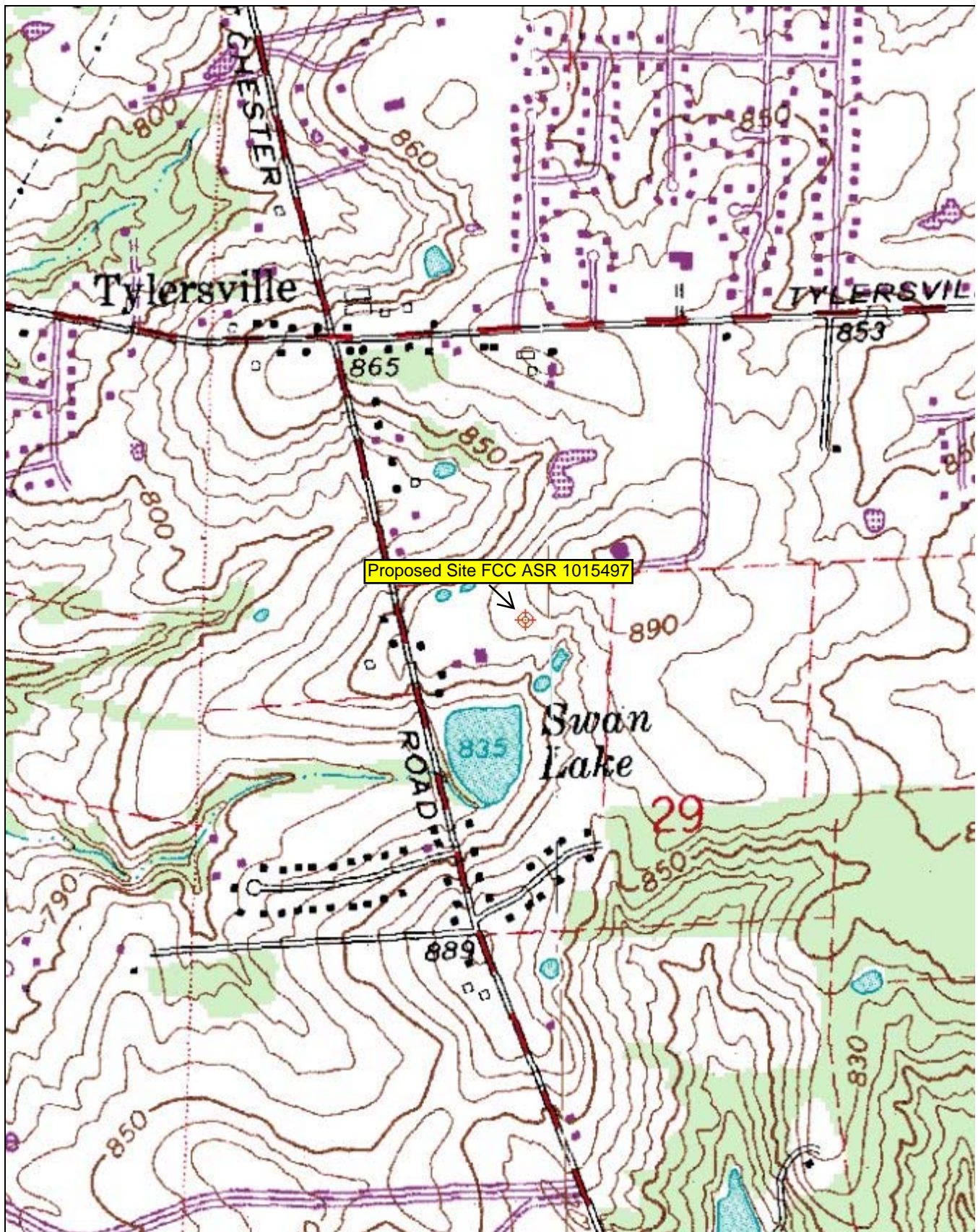
Latitude: 39-21-11 N
Longitude: 084-25-02 W
ERP: 0.01 kW
Channel: 245
Frequency: 96.9 MHz
AMSL Height: 410.0 m
Elevation: 268.0 m
Horiz. Pattern: Omni
Prop Model:

WYGY.C

BPH20070615ABV
Latitude: 39-01-27.80 N
Longitude: 084-30-44.20 W
ERP: 25.00 kW
Channel: 247
Frequency: 97.3 MHz
AMSL Height: 321.5 m
Elevation: 254.5 m
Horiz. Pattern: Omni
Prop Model:

■ W245AJ Proposed
■ WYGY.C





Coordinates (NAD27): 39-21-11.49 N, 084-25-01.71 W
Coordinates (NAD83): 39-21-11.70 N, 084-25-01.50 W