

**W221CV
MINOR MODIFICATION**

The proposed facility will rebroadcast WAKY-FM (facility ID # 70495). W221CV has been constructed and a form 350 filed.

Allocation discussion:

All exhibits utilize the FCC 30 second terrain database.

- E1 Channel study
- E2 60 dBu contours
- E3 ASR

A channel study is included as E1 demonstrating compliance with §74.1204. A plot of the proposed 60 dBu contour is provided as E2 showing that it is entirely contained within primary station WAKY-FM 60 dBu and that it overlaps the constructed W221CV 60 dBu.

RF Exposure Calculation:

The proposed facility will utilize a Bext MDR-1 single bay vertically polarized antenna with a center of radiation at 33 meters AGL on existing tower ASR#1209345. The RF contribution of the proposed translator was calculated using the formula included below to be 8.7 $\mu\text{Watts/cm}^2$ or 4.4% of the maximum permissible 200 microwatts/cm² exposure for general population/uncontrolled exposure, and below the 5% of that limit which requires consideration. The proposed translator clearly complies with Commission RF radiation limits.

$$S \text{ (RF in } \mu\text{Watts/cm}^2\text{)} = \frac{33.4 (F^2 \text{ Vertical Factor}) \times (H \text{ ERP} + V \text{ ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$

E1

REFERENCE
37 52 45.0 N.
85 43 03.0 W.

CH# 222D - 92.3 MHz, Pwr= 0.25 kW, HAAT= 129.4 M, COR= 300 M
Average Protected F(50-50)= 14.61 km
Omni-directional

DISPLAY DATES
DATA 10-23-15
SEARCH 10-23-15

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*
221D Elizabethtown	W221CV	CP DC_ KY	209.4 29.3	17.22 BMPFT20150807ACK	37 44 39.0 85 48 49.0	0.250	16.1 297	10.5 Washington County Cbc, Inc	-13.8	-16.5*
223C Owensboro	WBKR	LIC _CY KY	256.0 75.2	121.31 BLH19870121KD	37 36 29.0 87 03 15.0	100.000 320	107.0 453	73.7 Townsquare Media Of Evansv	-0.9	24.6
220B Louisville	WFPK«	LIC _CN KY	348.8 168.7	55.01 BLED19981005KC	38 21 55.0 85 50 24.0	6.800 236	4.3 426	46.3 Kentucky Public Radio, Inc	53.5R	1.5M
225D Elizabethtown	W225BS	CP _C_ KY	212.0 31.9	24.01 BMPFT20140625ADE	37 41 45.0 85 51 43.0	0.100	0.7 266	7.2 Skytower Communications E'	8.4	13.9
222B Bloomington	WTTS	LIC _CN IN	347.7 167.5	173.97 BMLH19880426KB	39 24 27.0 86 08 52.0	37.000 332	148.2 574	76.6 Sarkes Tarzian, Inc.	9.6	27.9
221C2 Carlisle	WBVX	LIC NC_ KY	73.3 254.2	122.88 BLH20011015AEZ	38 11 19.0 84 22 13.0	32.000 186	77.7 460	52.5 L.m. Communications Of Ken	32.7	52.2
222C2 London	WYGE	LIC ZCX KY	117.5 298.6	172.37 BLH20060202ADE	37 09 01.0 83 59 32.0	23.500 223	124.2 582	49.7 Ethel Huff Broadcasting, L	34.1	74.7
276C2 Lyndon	WQNU	LIC NCX KY	16.4 196.5	51.62 BLH20080714ADM	38 19 28.0 85 33 00.0	23.000 169	5.1 359	46.6 Sm-wqnu, Lic	14.5R	37.1M
225C1 Lexington	WLXX	LIC _CN KY	80.8 261.6	116.59 BMLH19800902AF	38 02 22.0 84 24 11.0	100.000 259	9.3 553	68.5 Cumulus Licensing Lic	94.5	47.0
219A Campbellsville	WAPD«	LIC _VX KY	150.6 330.9	69.54 BLED20040728AKI	37 19 59.0 85 19 53.0	2.323 66	1.8 309	17.2 American Family Associatio	25.5R	44.0M

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 restricted contour.

EXHIBIT E2

WAKY-FM

BLH20100311ABC
Latitude: 37-52-45 N
Longitude: 085-43-03 W
ERP: 3.50 kW
Channel: 278
Frequency: 103.5 MHz
AMSL Height: 415.0 m
Elevation: 267.0 m
Horiz. Pattern: Omni

W221CV.C

BMPFT20150807ACK
Latitude: 37-44-39 N
Longitude: 085-48-49 W
ERP: 0.25 kW
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 297.0 m
Elevation: 235.0 m
Horiz. Pattern: Directional

W221CV.A

Latitude: 37-52-45 N
Longitude: 085-43-03 W
ERP: 0.25 kW
Channel: 222
Frequency: 92.3 MHz
AMSL Height: 300.0 m
Elevation: 267.0 m
Horiz. Pattern: Directional

Louisville

W221CV PROPOSED 60 DBU

W221CV.A WAKY-FM

W221CV.C

W221CV 60 DBU
BUILT AND 350 FILED

WAKY-FM 60 DBU

Anderson Associates

Scale 1:500,000



V-Soft Communications LLC ©

Registration 1209345

 [Map Registration](#)

Registration Detail

Reg Number	1209345	Status	Constructed
File Number	A0652690	Constructed	01/20/2001
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type	TOWER - Free standing or Guyed Structure used for Commu		
Location (in NAD83 Coordinates)			
Lat/Long	37-52-45.0 N 085-43-03.0 W	Address	off Colling Hill Road, 1.2 miles south of Belmont
City, State	Belmont , KY		
Zip	40150	County	BULLITT
Center of AM Array		Position of Tower in Array	
Heights (meters)			
Elevation of Site Above Mean Sea Level		Overall Height Above Ground (AGL)	
267.0		152.4	
Overall Height Above Mean Sea Level		Overall Height Above Ground w/o Appurtenances	
419.4		151.5	

Painting and Lighting Specifications

FAA Chapters 4, 6, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1K

FAA Notification

FAA Study	01-ASO-7048-OE	FAA Issue Date	10/06/2001
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Owner & Contact Information

FRN	0001790724	Owner Entity Type
Owner		
W&B Broadcasting Company, Inc		P: (270)766-1035
Attention To: Bill Walters		F:
519 N Miles		E:
P.O. Box 2087		
Elizabethtown , KY 42702-4270		
Contact		
		P:
		F:
		E:

Last Action Status

Status	Constructed	Received	10/05/2009
Purpose	Notification	Entered	10/05/2009
Mode	Interactive		

Related Applications

10/05/2009	A0652689	- Modification (MD)
10/05/2009	A0652690	- Notification (NT)
02/22/2001	A0169722	- Notification (NT)

Related applications (4)

Comments

Comments

None

History

Date	Event
10/06/2009	Registration Printed
10/05/2009	ASR Application receipt email sent: CORES email
10/05/2009	Construction Notification Received

All History (8)

Automated Letters

10/06/2009	Authorization, Reference
02/12/2001	Construction Reminder, Reference 104396
02/10/2000	Authorization, Reference 37783

CLOSE WINDOW