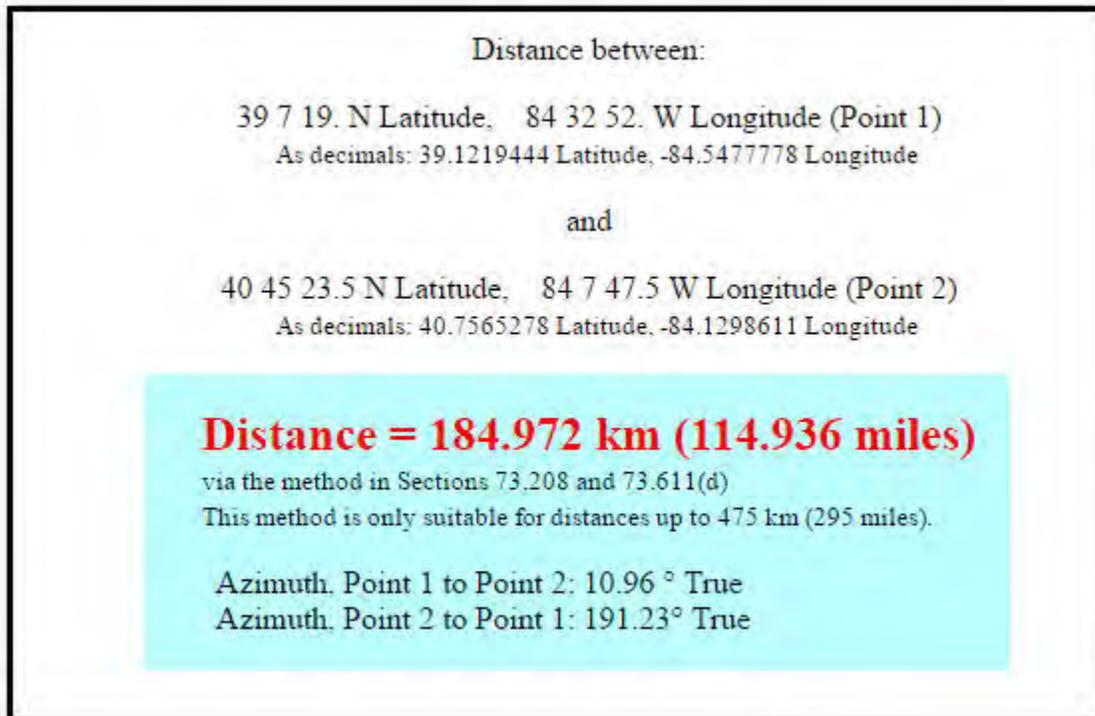


**W268CM
MINOR MODIFICATION
IN SITE , ERP AND HAAT
TO CONTINUE TO REBROADCAST
WDBZ(AM) (#10139)**

The modified “250 mile waiver” translator will continue to rebroadcast class C AM facility WDBZ (facility ID # 10139) as required. The modified facility is located 114.94 miles from the former W253AJ licensed facility remaining in compliance with the distance limit.

FCC Distance tool:



Allocation discussion:

- E1 Channel study
- E1A Interference analysis to WIZF 266A
- E1B Interference analysis to WKRQ 270B
- E1C Aerial photograph of site
- E1E DA tabulation
- E2 60 dBu and 2 mV/m contours
- E3 ASR

A channel study is included as E1 demonstrating compliance with §74.1204 with the exception of 2nd adjacent channel stations. A plot of the proposed 60 dBu contour is provided as E2 showing that it is entirely contained within primary station WDBZ(AM)'s 2 mV/m and 40 km radius and overlaps the licensed 60 dBu. All exhibits utilize the USGS 3 second terrain database.

The proposed facility will be collocated inside the protected contour of WIZF on 266A. An interference analysis has been conducted based on the U/D ratio of +40 dB at the proposed site and is included as E1A. WIZF's contour at the site is 102.9 dBu and the interference contour is 142.9 dBu or 5 meters maximum. It clears the ground by at least 111.7 meters.

The WKRQ 270B contour at the site is 104 dBu and the interference contour (+40 dB) is 148 dBu or 4.4 meters (see E1B). It clears the ground by at least 112.2 meters.

It is clear from E1A, E1B and the aerial photograph of the site included herein and as E1C that the interference contours will not reach any populated area or major highways. Based on this showing, a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc. (FCC 08-242)*.

Aerial view of site:



RF Exposure Calculation:

The proposed facility will utilize an ERI 100A single bay circularly polarized antenna with a center of radiation at 114 meters AGL on existing tower ASR #1012088. The RF contribution of the proposed translator was calculated using the formula included below to be 0.53 $\mu\text{Watts}/\text{cm}^2$ or 0.27% of the maximum permissible 200 $\mu\text{Watts}/\text{cm}^2$ exposure for general population/uncontrolled exposure, and well below the 5% of that limit which requires consideration. The proposed translator clearly complies with Commission RF radiation limits.

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

Charles M. Anderson 4-02-2017

EXHIBIT E1 CHANNEL STUDY

CH	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	WKRO	LIC_C_	OH	98.9	4.00	39 06 59.0	16.000	5.4	63.7	-14.5*	-61.1*
	Cincinnati			278.9	BLH19991004ABU	84 30 07.0	264	483	Cincinnati	Fcc	License Sub

See exhibit E1A and E1C for disproval of interference per *Living Way*.

268D	W268CM	LIC_C_	OH	100.2	4.86	39 06 51.0	0.099	28.4	8.6	-36.6*	-47.0*
	Cincinnati			280.2	BLFT20160624AAE	84 29 32.0		299	Blue Chip Broadcasting Lic		
268B	WKKG	LIC_CN	IN	273.8	121.10	39 11 12.0	50.000	139.4	66.7	-29.1*	3.0
	Columbus			93.0	BLH19890619KA	85 57 00.0	150	354	White River Broadcasting C		
266A	WIZF	LIC_CX	KY	202.8	2.04	39 06 18.0	2.500	2.6	29.8	-10.8*	-28.4*
	Erlanger			22.8	BLH20060721AAQ	84 33 25.0	155	379	Blue Chip Broadcasting Lic		

See E1B and E1C for disproval of interference per *Living Way*.

268A	WCLI -FM	LIC_ZCX	OH	25.6	94.05	39 53 02.0	6.000	88.8	30.2	-7.6	21.7
	Enon			205.9	BMLH20160505AFR	84 04 17.0	100	376	Alpha Media Licensee Lic		
267B1	WFMG	LIC_NCX	IN	337.3	85.16	39 49 41.0	20.500	55.6	41.0	19.8	27.3
	Richmond			157.1	BLH20060613ACE	84 55 57.0	83	397	Rodgers Broadcasting Corpo		

Terrain database is USGS 03 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.

E1A WIZF ANALYSIS

W268CM Cincinnati, OH
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.099
 Translator or LPFM Antenna Height AG = 114 Meters
 W268CM Antenna Model = ERI-100A

Protected Station's Contour = 102.9113 dBu
 Translator's or LPFM's full Interference contour 142.9113

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.099 kW
 Distance between stations = 2.0 km
 Protected Station= WIZF, 2.5 kW, 379 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.000	1.0	0.0990	004.9917	004.9917	114.000
05.00	0.993	1.0	0.0976	004.9568	004.9379	113.568
10.00	0.974	1.0	0.0939	004.8620	004.7881	113.156
15.00	0.941	1.0	0.0877	004.6972	004.5372	112.784
20.00	0.897	1.0	0.0797	004.4776	004.2076	112.469
25.00	0.843	1.0	0.0704	004.2080	003.8138	112.222
30.00	0.78	1.0	0.0602	003.8936	003.3719	112.053
35.00	0.709	1.0	0.0498	003.5391	002.8991	111.970
40.00	0.633	1.0	0.0397	003.1598	002.4205	111.969
45.00	0.554	1.0	0.0304	002.7654	001.9555	112.045
50.00	0.473	1.0	0.0221	002.3611	001.5177	112.191
55.00	0.394	1.0	0.0154	001.9667	001.1281	112.389
60.00	0.317	1.0	0.0099	001.5824	000.7912	112.630
65.00	0.245	1.0	0.0059	001.2230	000.5169	112.892
70.00	0.181	1.0	0.0032	000.9035	000.3090	113.151
75.00	0.124	1.0	0.0015	000.6190	000.1602	113.402
80.00	0.077	1.0	0.0006	000.3844	000.0667	113.621
85.00	0.041	1.0	0.0002	000.2047	000.0178	113.796
90.00	0.016	1.0	0.0000	000.0799	000.0000	113.920

E1B WKRQ ANALYSIS

W268CM Cincinnati, OH
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.099
 Translator or LPFM Antenna Height AG = 114 Meters
 W268CM Antenna Model = ERI 100A-1

Protected Station's Contour = 103.9587 dBu
 Translator's or LPFM's full Interference contour 143.9587

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.099 kW
 Distance between stations = 4.0 km
 Protected Station= WKRQ, 16 kW, 483 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.000	1.0	0.0990	004.4247	004.4247	114.000
05.00	0.993	1.0	0.0976	004.3937	004.3770	113.617
10.00	0.974	1.0	0.0939	004.3096	004.2442	113.252
15.00	0.941	1.0	0.0877	004.1636	004.0218	112.922
20.00	0.897	1.0	0.0797	003.9689	003.7296	112.643
25.00	0.843	1.0	0.0704	003.7300	003.3805	112.424
30.00	0.78	1.0	0.0602	003.4513	002.9889	112.274
35.00	0.709	1.0	0.0498	003.1371	002.5698	112.201
40.00	0.633	1.0	0.0397	002.8008	002.1456	112.200
45.00	0.554	1.0	0.0304	002.4513	001.7333	112.267
50.00	0.473	1.0	0.0221	002.0929	001.3453	112.397
55.00	0.394	1.0	0.0154	001.7433	000.9999	112.572
60.00	0.317	1.0	0.0099	001.4026	000.7013	112.785
65.00	0.245	1.0	0.0059	001.0840	000.4581	113.018
70.00	0.181	1.0	0.0032	000.8009	000.2739	113.247
75.00	0.124	1.0	0.0015	000.5487	000.1420	113.470
80.00	0.077	1.0	0.0006	000.3407	000.0592	113.664
85.00	0.041	1.0	0.0002	000.1814	000.0158	113.819
90.00	0.016	1.0	0.0000	000.0708	000.0000	113.929

E1C AERIAL VIEW OF PROPOSED SITE

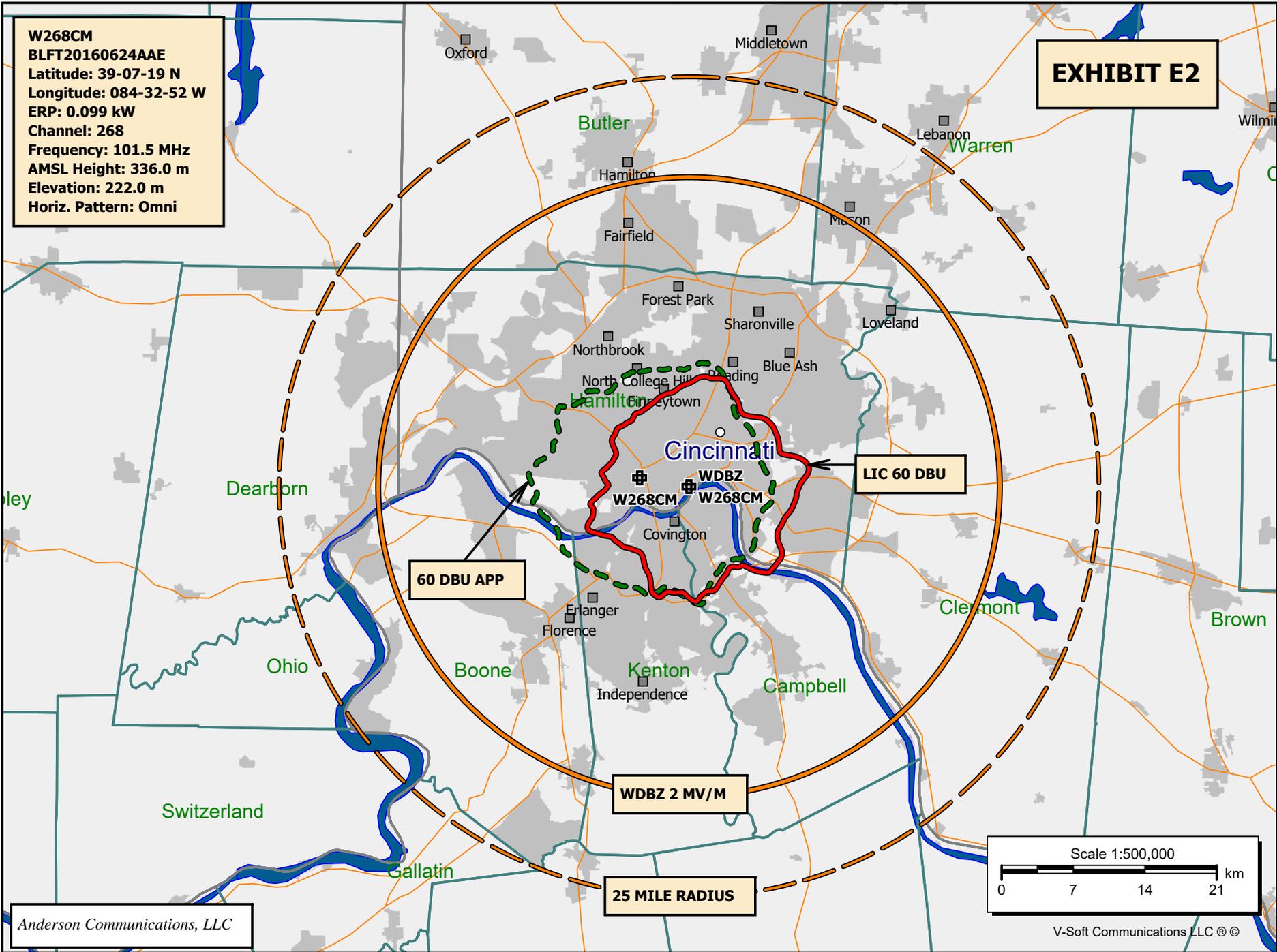


E1C GOOGLE STREET VIEW OF NEAREST BUILDINGS



W268CM
BLFT20160624AAE
Latitude: 39-07-19 N
Longitude: 084-32-52 W
ERP: 0.099 kW
Channel: 268
Frequency: 101.5 MHz
AMSL Height: 336.0 m
Elevation: 222.0 m
Horiz. Pattern: Omni

EXHIBIT E2

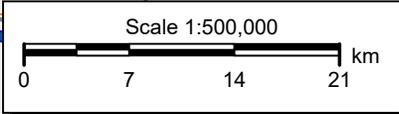


60 DBU APP

LIC 60 DBU

WDBZ 2 MV/M

25 MILE RADIUS



Anderson Communications, LLC

V-Soft Communications LLC ©

Registration 1012088**E3 ASR** [Map Registration](#)**Registration Detail**

Reg Number	1012088	Status	Constructed
File Number	A1066243	Constructed	01/01/1985
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type

Location (in NAD83 Coordinates)

Lat/Long	39-07-19.0 N 084-32-52.0 W	Address	2400 LEHMAN RD
City, State	CINCINNATI , OH	County	HAMILTON
Zip	45204	Position of Tower in Array	
Center of AM Array			

Heights (meters)

Elevation of Site Above Mean Sea Level	221.9	Overall Height Above Ground (AGL)	311.2
Overall Height Above Mean Sea Level	533.1	Overall Height Above Ground w/o Appurtenances	290.1

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 7, 16, 21

FAA Notification

FAA Study

FAA Issue Date

□

Owner & Contact Information

FRN	0014586911	Owner Entity Type	Limited Liability Company
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Owner

WXIX, LLC
201 Monroe Street
RSA Tower, 20th Floor
Montgomery , AL 36104

P: (334)206-1400
F:
E: fcdlms@raycommmedia.com

Contact

Bobeck , Ann W Esq
One CityCenter
850 Tenth Street, N.W.
Washington , DC 20001

P: (202)662-5719
F: (202)778-5719
E: abobbeck@cov.com

□

Last Action Status

Status	Constructed	Received	02/23/2017
Purpose	Admin Update	Entered	02/23/2017
Mode	Interactive		

Related Applications

Output from NADCON for station **W268CM**

North American Datum Conversion

NAD 83 to NAD 27

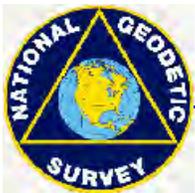
NADCON Program Version 2.11

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Transformation #: 1 Region: Conus

	Latitude	Longitude
NAD 27 datum values:	39 07 18.78638	84 32 52.20262
NAD 83 datum values:	39 07 19.00000	84 32 52.00000
NAD 27 - NAD 83 shift values:	-0.21362	0.20262(secs.)
	-6.588	4.867 (meters)
Magnitude of total shift:		8.191(meters)

ROUNDED = N 39-07-19 W 84-32-52 NAD 27



[NGS HOME PAGE](#)