

**W232CP
BPFT-20150327AMW
CP MINOR MODIFICATION**

A change in site and primary station are requested. The proposed facility will serve as a fill-in for WNOW(FM) HD2, Speedway, IN (FCC facility #6420)

Allocation discussion:

All exhibits utilize the V-Soft provided FCC 30 second terrain database.

E1	Channel study
E1A	WJJK interference analysis
E1B	Aerial view of interference area
E1C	DA
E2	60 dBu contours plot
E3	ASR

A channel study is included as E1 demonstrating compliance with §74.1204. Analysis of 2nd adjacent channel WJJK is provided below. A plot of the proposed 60 dBu is provided as E2 showing that it overlaps the W232CP licensed facility (BLFT-20150326AAG), and is contained within the WNOW 60 dBu.

WJJK analysis:

The proposed W232CP channel 285 facility will be located inside the protected contour of 2nd adjacent channel stations WJJK on 283B. Therefore, an interference analysis has been conducted based on the U/D ratio of +40 dB at the proposed site and is included as E1A. The WJJB (50,50) contour at the proposed site is 89.9 dBu and the (50,10) interference contour is 129.9 dBu or 35.5 meters. Clearly this interference contour does not reach any populated area or major highway. An aerial photograph of the site is included as E1B. Based on this showing a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

RF Exposure Calculation:

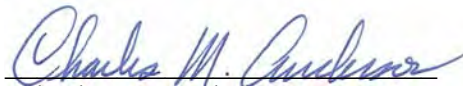
The proposed facility will be located at an existing tower (ASR #1031014) using a single bay ERI 100A circularly polarized antenna at 262 meters AGL. The RF contribution of the proposed translator was calculated to be $0.25 \mu\text{Watts/cm}^2$ using the formula included below and

Anderson Communications, LLC

a worst case vertical factor of 1.0. This is 0.125% of the maximum permissible 200 microwatts/cm² exposure for general population/uncontrolled exposure, and well below 5% of that limit which requires consideration.

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

The proposed translator facility complies with Commission RF radiation limits.



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E1 CHANNEL STUDY

REFERENCE
39 45 36.0 N.
86 00 22.0 W.

CH# 285D - 104.9 MHz, Pwr= 0.25 kW DA, HAAT= 276.0 M, COR= 521 M
Average Protected F(50-50)= 21.6 km
Standard Directional

DISPLAY DATES
DATA 09-01-15
SEARCH 09-01-15

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
285D Noblesville	W232CP	CP DC_ IN	311.3 131.2	22.67 BPFT20150327AMW	39 53 40.0 86 12 21.0	0.250	60.5 462	19.5 Kaspar Broadcasting Co, In	-59.4*<	-62.4*<
283B Noblesville	AL9217	RSV-A ____ IN	301.6 121.5	17.04 RM10153	39 50 25.0 86 10 34.0	50.000 150	5.8 393	64.2	-10.5*<	-49.1*<
283B Noblesville	WJJK	LIC _CX IN	301.6 121.5	17.04 BMLH20030828AYT	39 50 25.0 86 10 34.0	50.000 150	5.8 390	63.8 Radio License Holding Src	-10.4*<	-48.7*< (1)
285A Muncie	WERK	LIC _CX IN	48.0 228.4	65.89 BMLH20050322ADL	40 09 19.0 85 25 48.0	6.000 100	87.0 392	28.6 Woof Boom Radio Muncie Lic	-30.9*<	4.8
285A Columbus	WINN	LIC _CN IN	176.5 356.5	63.95 BLH19910501KA	39 11 09.0 85 57 37.0	6.000 91	84.9 297	26.9 White River Broadcasting C	-30.6*<	5.0
287D Greenwood	W287BE	LIC _V_ IN	216.1 36.0	18.21 BLFT20071114ABC	39 37 39.0 86 07 53.0	0.001 6	0.1 240	1.8 Friends Of Christian Radio	0.6	15.6
285L1 Kokomo	WTSX-LP	LIC ____ IN	352.6 172.5	82.81 BLL20150413AAV	40 29 55.0 86 07 55.0	0.100 26	276	43.5 Table Setter Neighborhood		13.8
285A Rockville	WAXI	LIC _CX IN	268.6 87.8	110.56 BMLH20070802ADU	39 43 44.0 87 17 56.0	1.700 134	70.6 317	22.9 Dlc Media, Inc.	17.9	21.0
232D Noblesville	W232CP	LIC DC_ IN	1.9 181.9	27.87 BLFT20150326AAG	40 00 38.0 85 59 43.0	0.250	0.0 299	0.0 Kaspar Broadcasting Co, In	9.5R	18.4M
286A Ellettsville	WHCC	LIC _CX IN	223.3 42.8	86.95 BLH20130903ABN	39 11 19.0 86 41 53.0	1.850 182	43.5 405	28.9 Artistic Media Partners, I	23.5	28.7
287D Anderson	W287BC	LIC _C_ IN	45.3 225.5	35.31 BLFT20061002AED	39 58 59.0 85 42 41.0	0.038 59	0.4 330	6.3 Indiana Community Radio Co	25.1	28.8
287D Carthage	W287BR	LIC _C_ IN	99.5 279.9	41.78 BLFT20090818ACR	39 41 48.0 85 31 28.0	0.250 18	1.1 302	7.3 Indiana Community Radio Co	25.3	33.9
285D Lafayette	W285EY	CP _C_ IN	314.6 134.1	104.63 BNPFT20130829ABU	40 25 05.0 86 53 08.0	0.055 33	15.5 228	4.8 Friends Of Christian Radio	67.6	34.4
232A Rushville	WIFE-FM	LIC _C_ IN	97.6 278.0	44.13 BMLH20000913AAR	39 42 22.0 85 29 41.0	1.050 171	0.0 462	0.0 Rodgers Broadcasting Corp.	9.5R	34.6M

Terrain database is FCC 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 restricted contour.
< = Contour Overlap

(1) See E1A and E1B for disproval of interference to WJJK.

E1A WJJK ANALYSIS

W232CP Noblesville, IN

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.25

Translator or LPFM Antenna Height AG = 262 Meters

W275BD Antenna Model = ERI 100A-1

Protected Station's Contour = 89.88647 dBu

Translator's or LPFM's full Interference contour 129.88647

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW

Distance between stations = 7.6 km

Protected Station= WJJK, 14 kW, 396 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	0.2500	035.5342	035.5342	262.000
05.00	0.993	1.0	0.2465	035.2855	035.1512	258.925
10.00	0.974	1.0	0.2372	034.6103	034.0845	255.990
15.00	0.941	1.0	0.2214	033.4377	032.2983	253.346
20.00	0.897	1.0	0.2012	031.8742	029.9519	251.098
25.00	0.843	1.0	0.1777	029.9553	027.1487	249.340
30.00	0.78	1.0	0.1521	027.7167	024.0033	248.142
35.00	0.709	1.0	0.1257	025.1937	020.6375	247.549
40.00	0.633	1.0	0.1002	022.4931	017.2308	247.542
45.00	0.554	1.0	0.0767	019.6859	013.9201	248.080
50.00	0.473	1.0	0.0559	016.8077	010.8038	249.125
55.00	0.394	1.0	0.0388	014.0005	008.0303	250.531
60.00	0.317	1.0	0.0251	011.2643	005.6322	252.245
65.00	0.245	1.0	0.0150	008.7059	003.6793	254.110
70.00	0.181	1.0	0.0082	006.4317	002.1998	255.956
75.00	0.124	1.0	0.0038	004.4062	001.1404	257.744
80.00	0.077	1.0	0.0015	002.7361	000.4751	259.305
85.00	0.041	1.0	0.0004	001.4569	000.1270	260.549
90.00	0.016	1.0	0.0001	000.5685	000.0000	261.431

E1B AERIAL VIEW OF SITE



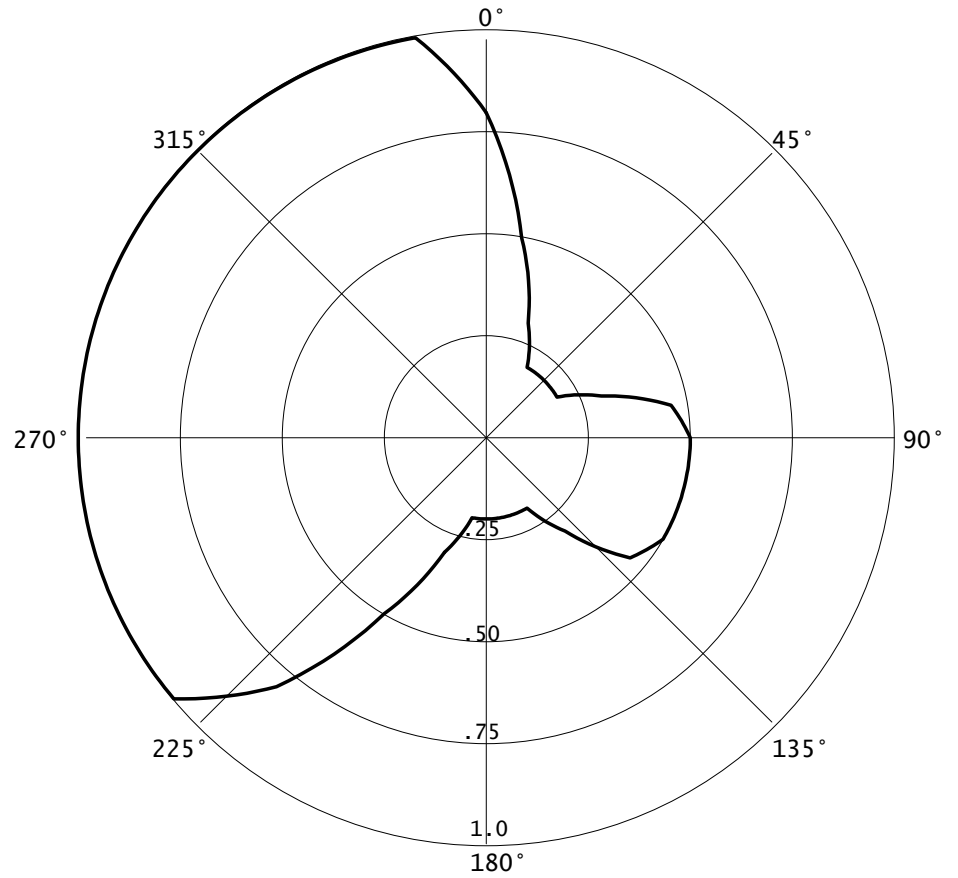
E1C DA

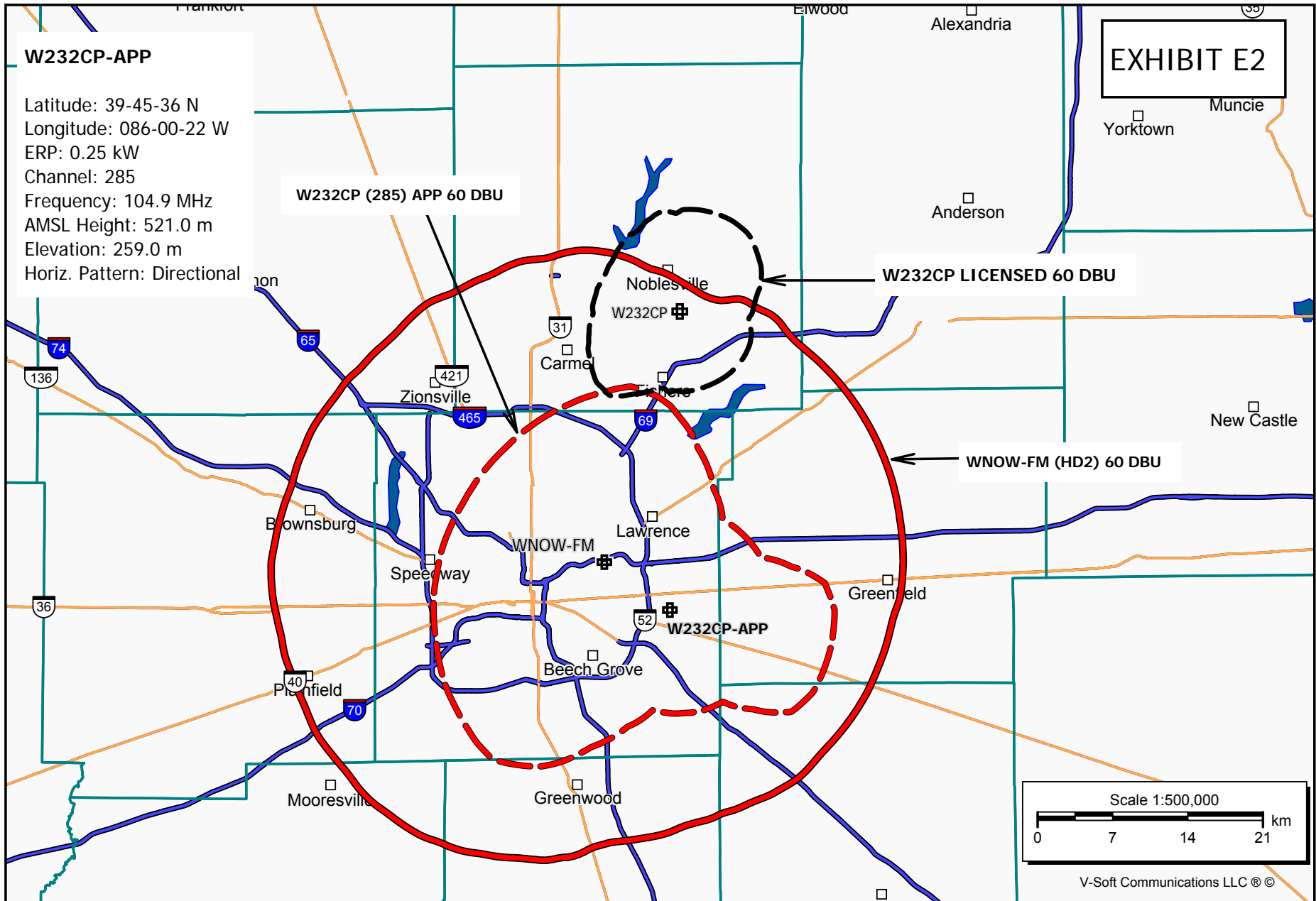
09-01-2015

RMS(V)= .684

Graph is Relative Field

Azi	Field	dBk	kw
000	0.800	-07.959	0.160
010	0.500	-12.041	0.063
020	0.300	-16.478	0.023
030	0.200	-20.000	0.010
040	0.200	-20.000	0.010
050	0.200	-20.000	0.010
060	0.200	-20.000	0.010
070	0.300	-16.478	0.023
080	0.460	-12.765	0.053
090	0.500	-12.041	0.063
100	0.500	-12.041	0.063
110	0.500	-12.041	0.063
120	0.500	-12.041	0.063
130	0.460	-12.765	0.053
140	0.300	-16.478	0.023
150	0.200	-20.000	0.010
160	0.200	-20.000	0.010
170	0.200	-20.000	0.010
180	0.200	-20.000	0.010
190	0.200	-20.000	0.010
200	0.300	-16.478	0.023
210	0.500	-12.041	0.063
220	0.800	-07.959	0.160
230	1.000	-06.021	0.250
240	1.000	-06.021	0.250
250	1.000	-06.021	0.250
260	1.000	-06.021	0.250
270	1.000	-06.021	0.250
280	1.000	-06.021	0.250
290	1.000	-06.021	0.250
300	1.000	-06.021	0.250
310	1.000	-06.021	0.250
320	1.000	-06.021	0.250
330	1.000	-06.021	0.250
340	1.000	-06.021	0.250
350	1.000	-06.021	0.250





Registration Detail

Reg Number	1031014	Status	Constructed
File Number	A0364433	Constructed	07/01/1956
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	39-45-36.0 N 086-00-22.0 W	Address	553 S POST RD
City, State	INDIANAPOLIS , IN		
Zip	46239	County	MARION
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
259.0	303.9
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
562.9	282.0

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13
Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	97-AGL-4554-OE	FAA Issue Date	10/24/1997
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Owner & Contact Information

FRN	0003780368	Owner Entity Type	
Assignor FRN	0003780368	Assignor ID	L00263768

Owner

LIN Television Corporation
Attention To: Marcia L. Greene
4 Richmond Square, Suite 200
Providence , RI 02906
P: (202)462-6065
F:
E: marcia.greene@lintv.com

Contact

P:
F:
E:

Last Action Status

Status	Constructed	Received	02/18/2004
Purpose	Change Owner	Entered	02/18/2004
Mode	Interactive		

Related Applications

02/18/2004	A0364433	- Change Owner (OC)
09/30/1997	A0036744	- New (NE)

Output from NADCON for station W275BD

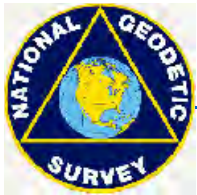
North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

Transformation #: 1 Region: Conus

	Latitude	Longitude
NAD 27 datum values:	39 45 35.84671	86 00 22.06407
NAD 83 datum values:	39 45 36.00000	86 00 22.00000
NAD 27 - NAD 83 shift values:	-0.15329	0.06407(secs.)
	-4.728	1.525 (meters)
Magnitude of total shift:		4.968(meters)



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