

**AUCTION 83
LONG FORM AMENDMENT
FRANKFORT, IN #155842
BNPFT-20130822AEI**

This long form application on channel 252 is amended to lower the overall tower height and the radiation center height. The coordinates were corrected in the long form by 10 seconds in latitude and longitude resulting in a 0.38 km *deminimis* change and the height AGL is decreased 11 meters when compared to the short form. These changes do not represent a significant change in LPFM impact and it is requested that this application remain protected from LPFM conflicts in the October 15th window.

The translator will rebroadcast station WSHW(FM)'s HD2 at Frankfort, IN (facility #33466).

The proposal is within 39 km of the Indianapolis, IN spectrum limited market, but does not preclude any protected LPFM channel point in that grid (see LPFM non-preclusion showing in exhibit 1). The proposed site is in Logan County Indiana and is not in the Indianapolis ARB metro market. Therefore, no site test is required.

Allocation discussion:

All exhibits were developed utilizing the FCC 30 second terrain database.

- E1 Channel study
- E2 Contours
- E3 Towerair

A channel study is included as E1 demonstrating compliance with §74.1204. A plot of the proposed and short form 60 dBu contours is provided as E2 showing overlap with the short form 60 dBu and containment of the proposed 54 dBu within the WSHW HD2 54 dBu.

RF Exposure Calculation:

The RF contribution of the proposed translator using a Bext TFC2K-2 half-wave spaced circularly polarized antenna was calculated using FMMODEL based on a worst case ring-stub design mounted at 32 meters AGL to be 4.10 μ Watts/cm² or 2.05% of the maximum permissible 200

Anderson Associates

μ Watts/cm² exposure for general population/uncontrolled exposure, and less than the 5% requiring consideration.

It is noted that the existing tower was constructed in the 1980s. It now fails the Towerair slope test. Therefore, the applicant will remove sufficient tower to achieve 25 meters overall twenty to achieve compliance with the slope test.



Charles M. Anderson August 25, 2013

E1 CHANNEL STUDY

REFERENCE
40 17 09.0 N.
86 31 38.0 W.

CH# 252D - 98.3 MHz, Pwr= 0.25 kw, HAAT= 27.2 M, COR= 283 M
Average Protected F(50-50)= 7.09 km
Omni-directional

DISPLAY DATES
DATA 08-24-13
SEARCH 08-25-13

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*
252D Frankfort	1569508	APP _C_ IN		0.0 0.0	0.00 BNPFT20130822AEI	40 17 09.0 86 31 38.0	0.250	30.0 291	9.1 Kaspar Broadcasting Co, In	-38.2*	-36.3*
252D Frankfort	1548798	APP _C_ IN		322.7 142.7	0.38 BNPFT20030317GYL	40 17 19.0 86 31 48.0	0.250	23.8 294	7.1 Kaspar Broadcasting Co, In	-32.4*	-36.5*
252A Plainfield	WRDZ-FM	LIC _CN IN		167.5 347.6	59.97 BLH19830131AS	39 45 33.0 86 22 30.0	3.000 91	69.8 341	20.5 Radio Disney Group, Llc	-16.9*	15.7
254A Battle Ground	WASK-FM	LIC _CN IN		292.3 112.0	30.88 BLH19930323KF	40 23 26.0 86 51 53.0	4.400 117	2.6 317	27.0 Wask, Inc.	19.3	2.8
249D Cofax	1550262	APP _C_ IN		221.6 41.5	13.74 BNPFT20030314ATH	40 11 36.0 86 38 05.0	0.007	0.2 326	4.3 Friends Of Christian Radio	6.5	8.3
253A Peru	WMYK	LIC _CX IN		46.9 227.2	56.09 BMLH20111012ABX	40 37 46.0 86 02 30.0	6.000 100	41.9 339	27.1 Hoosier Am/fm, Llc	7.1	18.7
250B Anderson	WG NR-FM	LIC _C_ IN		109.4 290.0	73.79 BML ED20030908ADX	40 03 43.0 85 42 34.0	50.000 149	5.9 405	64.8 The Moody Bible Institute	60.8	7.4
251B1 Earl Park	WIBN	LIC _CX IN		292.4 111.8	84.62 BMLH20100810ABA	40 34 22.0 87 27 12.0	25.000 100	58.8 329	43.5 Brothers Broadcasting Corp	16.8	26.1
252A Culver	NEW	CP ZCX IN		356.8 176.7	115.41 BNPH20120514AAI	41 19 20.0 86 36 17.0	6.000 95	85.9 306	27.6 Kankakee Valley Broadcasti	20.9	60.1
253B Paris	WIBQ	LIC _C_ IL		233.9 53.1	127.09 BMLH20110215AEO	39 36 20.0 87 43 32.0	50.000 152	79.6 360	66.4 Midwest Communications, In	40.4	46.4
254A Anderson	WQME	LIC _CN IN		115.6 296.2	77.08 BLH19970512KF	39 58 59.0 85 42 41.0	4.500 117	2.8 390	29.3 Anderson University, Inc.	67.3	46.7

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.
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.

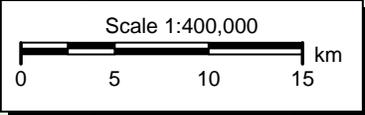
EXHIBIT E2

BNPFT20130822AEI
Latitude: 40-17-09 N
Longitude: 086-31-38 W
ERP: 0.25 kW
Channel: 252
Frequency: 98.3 MHz
AMSL Height: 283.0 m
Elevation: 259.0 m
Horiz. Pattern: Omni

SHORT FORM 60 DBU - RED
LONG FORM 60 DBU - BLACK

PROPOSED 54 DBU

WSHW 54 DBU



TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

PASS SLOPE(100:1)NO FAA REQ - 3266.0 Meters (10715.0 Feet)away & below slope by 9.0 Meters (29.5300 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	40-16-40.00N	086-33-51.00W	FRANKFORT MUNI	CLINTON FRANKFORT, IN	261.0	1524.0

PASS SLOPE(100:1)NO FAA REQ - 2494.0 Meters (8182.31 Feet)away & below slope by 1.0 Meters (3.27999 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	40-16-21.00N	086-33-3.00W	FRANKFORT MUNI	CLINTON FRANKFORT, IN	261.0	1524.0

Your Specifications

NAD83 Coordinates

Latitude 40-17-09.0 north
Longitude 086-31-38.0 west

Measurements (Meters)

Overall Structure Height (AGL) 25
Support Structure Height (AGL) 0
Site Elevation (AMSL) 259

Structure Type

LTOWER - Lattice Tower
