

## **EXHIBIT 1**

### **NOBLESVILLE SHORT FORM BNPFT-20030317GWL AMENDMENT LPFM PRECLUSION SHOWING**

This LPFM preclusion showing is provided because the proposed Noblesville, IN facility is located within the 39 km buffer zone of the Indianapolis, IN “spectrum limited” market 30X30 grid, and it is located in one of the Indianapolis ARB metro counties, a top 50 “spectrum limited” market.

#### **LPFM grid preclusion test:**

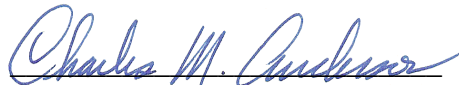
The LPFM6 study excerpted herein shows the channel 285 and 286 LPFM channel points that must be protected. Exhibit 1A demonstrates that the Noblesville channel 286 proposal co-channel (26 km) and adjacent channel (15 km) LPFM preclusion circles do not intersect any of the channel 285 and 286 protected points. There are no points on channels 284, 287 or 288. The LPFM preclusion circle radii are based on the proposed 0.04 kW ERP and 12 radial HAAT (FCC 30 second terrain) 60 dBu of 6.7 km. This results in the use of the 26 and 15 km radii in accordance with §73.807(d)(1).

#### **LPFM site test:**

The proposed facility is located in a county of the Indianapolis, IN top 50 “spectrum limited” market. Therefore, an LPFM site test is included as E1B in accordance with DA 13-427, Appendix B which instructs that the site test “....ignore LPFM second-adjacent and intermediate-frequency protection requirements...” The Commission’s LPFM channel finder tool was used at the proposed site and indicates there are two LPFM channels available – 291 and 292. Note that new LPFM facilities are precluded on channels 284 through 288 by other

existing facilities on co-channels and 1<sup>st</sup> adjacent channels. Therefore, the proposed channel 286 Noblesville translator does not preclude any LPFM facilities at site.

It is concluded that the amended Noblesville application does not preclude any LPFM channel point in an Appendix A market or any LPFM channel at its proposed site.



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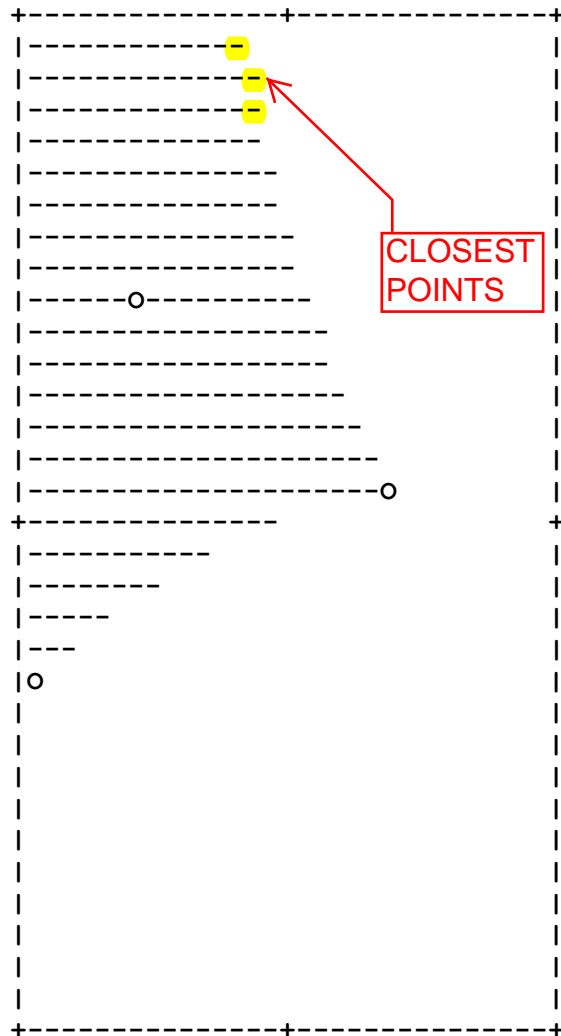
INDIANAPOLIS, IN  
 Latitude 39-46-06  
 Longitude 086-09-29  
 Grid Size 31 x 31  
 Micro FM 100 Watts at 30m HAAT  
 Co-Channel and 1st Adjacent Protected  
 2nd Adjacent Channel Not Protected  
 3rd Adjacent Channel Not Protected  
 I.F. Not Protected  
 TV Channel 6 Protected  
 CP Records Protected  
 APP Records Protected  
 FM Translators Protected  
 TV Channel 6 Translators/LP Protected  
 Auc83 FX App Records Not Protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	71	280	0
201	0	221	0	241	0	261	371	281	3
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	0	283	0
204	0	224	846	244	13	264	0	284	0
205	0	225	0	245	0	265	0	285	295
206	0	226	0	246	0	266	0	286	64
207	0	227	0	247	0	267	0	287	0
208	0	228	525	248	578	268	0	288	0
209	0	229	0	249	0	269	0	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	16
212	0	232	14	252	0	272	0	292	120
213	0	233	0	253	0	273	0	293	0
214	0	234	0	254	69	274	0	294	0
215	0	235	0	255	293	275	231	295	0
216	0	236	429	256	961	276	0	296	0
217	0	237	0	257	0	277	0	297	0
218	0	238	0	258	0	278	0	298	1
219	0	239	0	259	0	279	0	299	0
								300	0

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 Total 4900

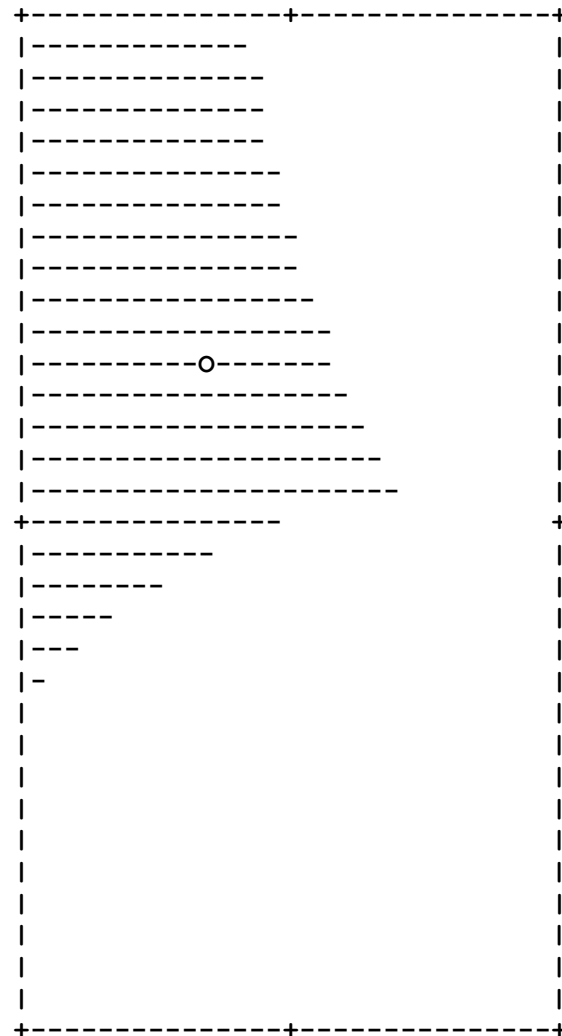
Total allotments, least preclusive spacing: 51  
 Total allotments, most preclusive spacing: 38

INDIANAPOLIS, IN  
Latitude 39-46-06  
Longitude 086-09-29  
Least preclusive siting  
Availability of Channel 285 (X)



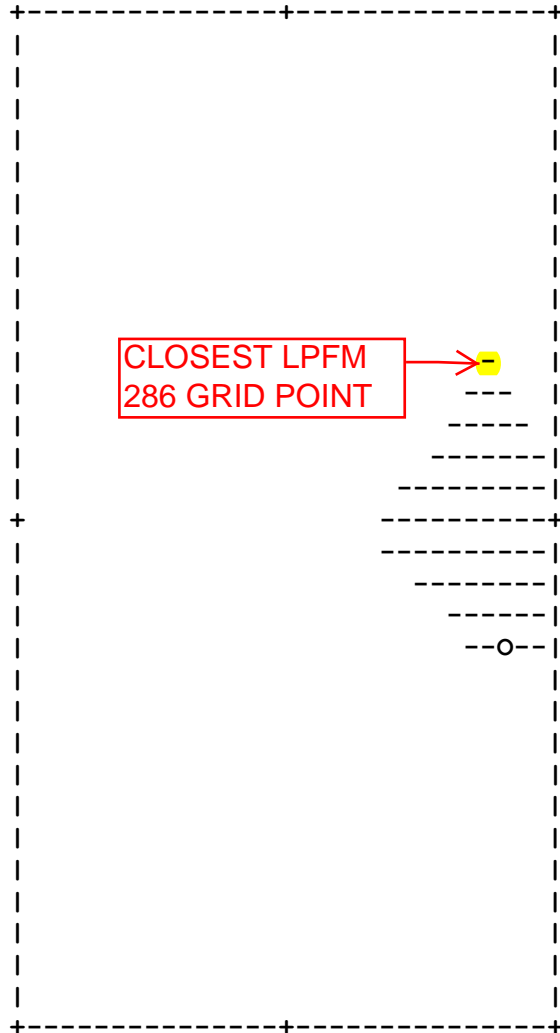
Point #941 at 39-41-06 086-24-29  
Point #296 at 39-47-06 086-03-29  
Point #767 at 39-53-06 086-18-29

INDIANAPOLIS, IN  
Latitude 39-46-06  
Longitude 086-09-29  
Most preclusive siting  
Availability of Channel 285 (X)



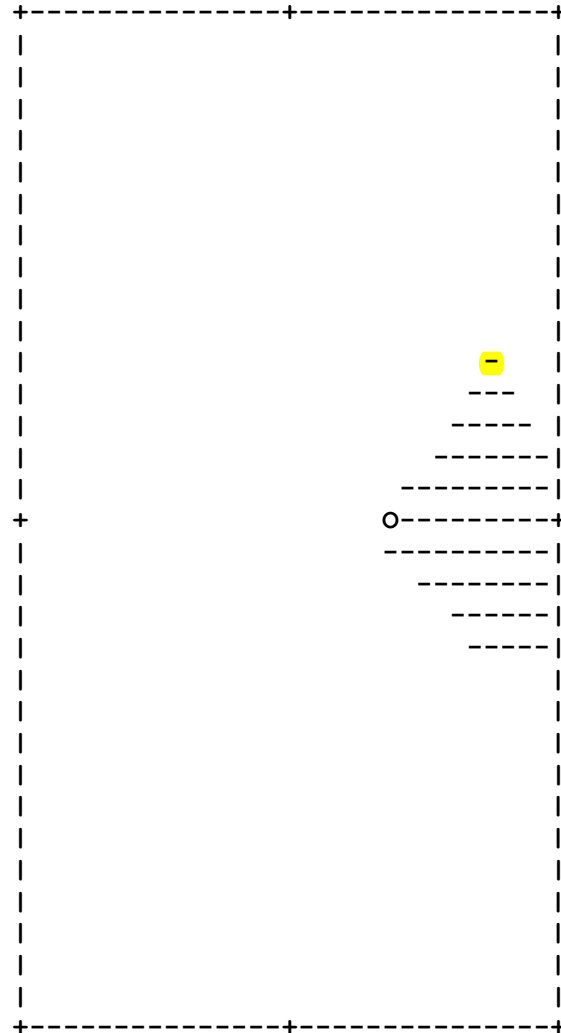
Point #641 at 39-51-06 086-14-29

INDIANAPOLIS, IN  
Latitude 39-46-06  
Longitude 086-09-29  
Least preclusive siting  
Availability of Channel 286 (X)



Point #074 at 39-42-06 085-56-29

INDIANAPOLIS, IN  
Latitude 39-46-06  
Longitude 086-09-29  
Most preclusive siting  
Availability of Channel 286 (X)



Point #295 at 39-46-06 086-03-29

# EXHIBIT 1A LPFM MARKET PLOT

#155792  
BNPFT20030317GWL  
Latitude: 40-05-44 N  
Longitude: 085-57-16 W  
ERP: 0.04 kW  
Channel: 285  
Frequency: 104.9 MHz  
AMSL Height: 307.0 m  
Elevation: 247.0 m  
Horiz. Pattern: Directional

2ND ADJACENT CHANNEL  
LPFM PRECLUSION RADIUS = 8 KM

NOBLESVILLE CO-CHANNEL 286  
LPFM PRECLUSION RADIUS = 26 LM  
BASED ON 60 DBU LESS THAN 7.3 KM

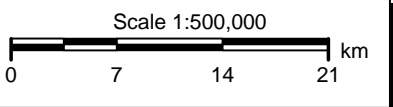
INDIANAPOLIS METRO

NOBLESVILLE CH 285 ADJACENT  
CHANNEL LPFM PRECLUSION  
RADIUS = 15 KM.

CLOSEST 285 POINTS  
N 40-01-06 W 86-12-29  
N 40-00-06 W 86-11-29

CLOSEST 286 POINT  
27.1 KM FROM SITE  
N 39-51-06 W 85-56-29

INDIANAPOLIS 30x30 GRID (GRAY)



## E1B NOBLESVILLE CH 286 SITE TEST - LPFM SEARCH

REFERENCE					DISPLAY DATES			
40 05 44.0 N.			Class L1 Preclusions		DATA	03-29-13		
85 57 16.0 W.			Current Spacings		SEARCH	03-29-13		
Call	Channel	Location		Azi	Dist	FCC	Margin	
--- Channel 284 104.7 MHz. ---								
WJJK	LIC	283B	Noblesville	IN	213.7	34.1	97.0	-62.4
WERK	LIC	285A	Muncie	IN	81.4	45.2	56.0	-10.3
649046	APP	285D	Noblesville	IN	216.3	8.3	15.0	-6.2
--- Channel 285 104.9 MHz. ---								
AL9217	RSV	283B	Noblesville	IN	213.7	34.1	67.0	-32.4
WJJK	LIC	283B	Noblesville	IN	213.7	34.1	67.0	-32.4
WERK	LIC	285A	Muncie	IN	81.4	45.2	67.0	-21.3
649046	APP	285D	Noblesville	IN	216.3	8.3	26.0	-17.2
--- Channel 286 105.1 MHz. ---								
WKOA	LIC	287B	Lafayette	IN	294.5	83.4	97.0	-13.1
WERK	LIC	285A	Muncie	IN	81.4	45.2	56.0	-10.3
649046	APP	285D	Noblesville	IN	216.3	8.3	15.0	-6.2
--- Channel 287 105.3 MHz. ---								
WYXB	LIC-Z	289B	Indianapolis	IN	186.5	36.7	67.0	-29.8
WKOA	LIC	287B	Lafayette	IN	294.5	83.4	112.0	-28.1
W287BC	LIC	287D	Anderson	IN	121.1	24.2	26.0	-1.3
--- Channel 288 105.5 MHz. ---								
WYXB	LIC-Z	289B	Indianapolis	IN	186.5	36.7	97.0	-59.8
WKOA	LIC	287B	Lafayette	IN	294.5	83.4	97.0	-13.1
--- Channel 292 106.3 MHz. ---								
***** Available channel *****								

Note that new LPFM facilities are precluded on channels 284 through 288 by other existing facilities that are highlighted in yellow in the study. In fact, no LPFM facility is possible on these channels even ignoring 2nd adjacent channels. Therefore, the proposed channel 286 Noblesville Translator does not preclude any LPFM facilities at site. Furthermore, there is one other LPFM facility available at site on channel 292. Ignoring 2nd adjacents, channel 291 is also available.



## Audio Division

### Low Power FM (LPFM) Channel Finder

(202)-418-2700

[FCC](#) > [MB](#) > [Audio Division](#) > [LPFM Channel Finder](#) [LPFM Info](#)

[FCC site map](#)

Sat Mar 30 12:25:05 2013

EXCLUDES second-adjacent channel spacings  
EXCLUDES intermediate frequency (I.F.) spacings

Input options:

Latitude, Longitude: 40° 5' 44", 85 57' 16"

Google Map: [5.6 km radius \(approximate 60 dBu service contour coverage\)](#)



**CONDITIONAL.** The requested latitude and longitude meet the PROPOSED LPFM spacing requirements for one or more second adjacent and/or intermediate frequency (I.F.) channels.

These proposed spacing rules are not yet in effect.

**Channels Available for LPFM LP100 Stations**  
**[Channels 201 to 300, [corresponding to 88.1 to 107.9 MHz](#)]**

Channel 291 ---- 106.1 MHz

Channel 292 ---- 106.3 MHz

This analysis does not determine whether an LPFM station at this location and channel might receive interference within its 60 dBu LPFM service contour from FM broadcast stations already operating or authorized in the band from fully spaced locations. LPFM stations must accept all such interference.