

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B

Spacing Clearance Study for WUBU South Bend, Indiana
Using Proposed Site as Reference

REFERENCE		DISPLAY DATES
41 36 58.8 N.	CLASS = A Int = A	DATA 04-15-16
86 11 44.0 W.	Current Spacings to 3rd Adj.	SEARCH 04-15-16
----- Channel 292 - 106.3 MHz -----		

Call	Channel	Location	Power	Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power	HAAT			
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WUBU	CP -Z 292A	South Bend	IN	0.0	0.00	114.5	-114.5
41 36 58.8	86 11 44.0	ZCX	2.200 kW	100 M			
	Partnership Radio, Llc		BPH20151231ABD				
WUBU	LIC-Z 292A	South Bend	IN	324.8	8.17	114.5	-106.3
41 40 35.0	86 15 08.0	ZCX	3.000 kW	92 M			
	Partnership Radio, Llc		BLH20090331ATJ				
WRDF	LIC-Z 292A	Columbia City	IN	118.0	94.40	114.5	-20.1
			\$73.215(e) spacing			91.5	+2.9
41 12 49.0	85 12 04.0	ZCX	5.600 kW	104 M			
	Fort Wayne Catholic Radio		BLH20040108AML				
WSRB	LIC-Z 292A	Lansing	IL	268.3	112.69	114.5	-1.8
			\$73.215(e) spacing			91.5	+21.2
41 34 44.0	87 32 47.0	ZCX	4.100 kW	121 M			
	Dontron, Inc.		BLH20031219AAA				
WVFM	LIC-N 293B	Kalamazoo	MI	31.3	112.20	112.5	-0.3
			\$73.215(e) spacing			95.5	+16.7
42 28 35.0	85 29 05.0	NCX	33.000 kW	183 M			
	Midwest Communications, In		BLH20060726ANY				
WRDI	LIC 239A	Nappanee	IN	151.6	21.08	9.5	11.6
41 26 58.0	86 04 30.0	CX	2.500 kW	155 M			
	St. Joseph Catholic Radio		BLH20091014ABT				
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Reference station has protected zone issue: Canada
RSV-R = reserved - needs protection, RSV-A = allocation.
All separation margins include rounding

REFERENCE	CH# 292A - 106.3 MHz, Pwr= 1.4 kW DA, HAAT= 136.3 M, COR= 375.3 M DISPLAY DATES										
41 36 58.8 N.	Average Protected F(50-50)= 23.4 km DATA 04-15-16										
86 11 44.0 W.	73.215 Directional SEARCH 04-15-16										
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr (kW)	INT (km)	PRO (km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT (M)	COR (M)	LICENSEE	(Overlap in km)	
292A	WUBU!	CP	ZCX	0.0	0.00	41 36 58.8	2.200	73.1	23.6	-97.1	-96.0
South Bend			IN	0.0	BPH20151231ABD	86 11 44.0	100	341	Partnership Radio, Llc		
292A	WUBU!	LIC	ZCX	324.8	8.17	41 40 35.0	3.000	65.6	19.1	-82.1	-85.0
South Bend			IN	144.8	BLH20090331ATJ	86 15 08.0	92	323	Partnership Radio, Llc		
292A	WRDF	LIC	ZCX	118.0	94.23	41 12 49.0	5.600	84.5	26.9	0.0	34.4
Columbia City			IN	298.7	BLH20040108AML	85 12 04.0	104	360	Fort Wayne Catholic Radio		
293B	WVFM	LIC	NCX	31.3	112.19	42 28 35.0	33.000	77.2	64.7	12.5	0.9
Kalamazoo			MI	211.8	BLH20060726ANY	85 29 05.0	183	452	Midwest Communications, In		
239A	WRDI«	LIC	CX	151.6	21.08	41 26 58.0	2.500	12.8	58.8	10.0R	11.1M
Nappanee			IN	331.6	BLH20091014ABT	86 04 30.0	155	408	St. Joseph Catholic Radio		
292A	WSRB	LIC	ZCX	268.3	112.38	41 34 44.0	4.100	75.4	24.9	13.1	15.3
Lansing			IL	87.4	BLH20031219AAA	87 32 47.0	121	309	Dontron, Inc.		
291B	AL4309«	RSV-A		55.9	156.15	42 23 28.0	50.000	77.3	64.3	113.0R	43.2M
Charlotte			MI	237.0	RM11134	84 37 22.0	150	438			
291B	WJXQ«	LIC	C	55.9	156.16	42 23 30.0	49.000	77.5	64.6	113.0R	43.2M
Charlotte			MI	237.0	BMLH20150427AAU	84 37 23.0	151	442	Midwest Communications, In		

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= - Zone 1, 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.

« = Station meets FCC minimum distance spacing for its class.

Reference station has protected zone issue: Canada

WUBU CP, South Bend, IN - Proposed
BPH20151231ABD
Latitude: 41-36-58.80 N / Longitude: 086-11-44 W
ERP: 1.40 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 375.3 m / Elevation: 264.48 m

WVFM

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

WRDF, Columbia City, IN
BLH20040108AML
Latitude: 41-12-49 N / Longitude: 085-12-04 W
ERP: 5.60 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 360.3 m / Elevation: 256.0 m]]

WSRB, Lansing, IL
BLH20031219AAA
Latitude: 41-34-44 N / Longitude: 087-32-47 W
ERP: 4.10 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 309.0 m / Elevation: 183.0 m

WVFM, Kalamazoo, MI
BLH20060726ANY
Latitude: 42-28-35 N / Longitude: 085-29-05 W
ERP: 33.00 kW / Channel: 293 / Freq: 106.5 MHz
AMSL Height: 452.0 m / Elevation: 311.0 m

- 60 dBu (50/50) - WUBU, WRDF, WSRB
- 54 dBu (50/50) - WVFM
- 54 dBu (50/10) - WVFM
- 48 dBu (50/10) - WUBU
- 40 dBu (50/10) - WUBU, WRDF, WSRB

EXHIBIT B2
MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

Scale 1:1,000,000
0 10 20 30 km

WUBU CP, South Bend, IN - Proposed
BPH20151231ABD
Latitude: 41-36-58.80 N / Longitude: 086-11-44 W
ERP: 1.40 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 375.3 m / Elevation: 264.48 m

WRDF, Columbia City, IN
BLH20040108AML
Latitude: 41-12-49 N / Longitude: 085-12-04 W
ERP: 5.60 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 360.3 m / Elevation: 256.0 m]]

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

WUBU.C

EXHIBIT B3
MODIFY BPH-20151231ABD
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CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

60 dBu (50/50) - WUBU, WRDF, WSRB
40 dBu (50/10) - WUBU, WRDF, WSRB

Scale 1:250,000
0 3 6 9 km

WUBU CP, South Bend, IN - Proposed
BPH20151231ABD
Latitude: 41-36-58.80 N / Longitude: 086-11-44 W
ERP: 1.40 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 375.3 m / Elevation: 264.48 m

WVFM, Columbia City, IN
BLH20060726ANY
Latitude: 42-28-35 N / Longitude: 085-29-05 W
ERP: 33.00 kW / Channel: 293 / Freq: 106.5 MHz
AMSL Height: 452.0 m / Elevation: 311.0 m]]

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

60 dBu (50/50) - WUBU
54 dBu (50/50) - WVFM
54 dBu (50/10) - WVFM
48 dBu (50/10) - WUBU

EXHIBIT B4
MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
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WUBU.C

Scale 1:500,000
0 7 14 21 km

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CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
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EXHIBIT B5

WUBU - Proposed
Channel = 292A
Max ERP = 1.4 kW
RCAMSL = 375.3 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

WRDF - BLH-20040108AML
Channel = 292A
Max ERP = 5.6 kW
RCAMSL = 360.3 m
N. Lat. 41 12 49.0
W. Lng. 85 12 04.0

Protected
60 dBu

Interfering
40 dBu

FCC 30 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
058.0	000.3389	0150.0	017.3	308.6	005.6000	0093.5	086.9	39.33
059.0	000.3226	0150.3	017.1	308.4	005.6000	0093.4	086.7	39.39
060.0	000.3066	0150.4	016.9	308.2	005.6000	0093.4	086.5	39.44
061.0	000.2937	0150.2	016.7	308.0	005.6000	0093.3	086.3	39.49
062.0	000.2822	0149.5	016.4	307.8	005.6000	0093.3	086.1	39.53
063.0	000.2698	0148.4	016.1	307.5	005.6000	0093.3	086.0	39.57
064.0	000.2589	0147.3	015.9	307.3	005.6000	0093.3	085.9	39.60
065.0	000.2470	0146.2	015.6	307.1	005.6000	0093.3	085.8	39.63
066.0	000.2353	0145.2	015.3	306.8	005.6000	0093.2	085.7	39.66
067.0	000.2251	0144.2	015.1	306.6	005.6000	0093.2	085.6	39.69
068.0	000.2140	0143.4	014.8	306.3	005.6000	0093.2	085.5	39.71
069.0	000.2043	0142.9	014.6	306.1	005.6000	0093.2	085.4	39.74
070.0	000.1937	0142.7	014.4	305.9	005.6000	0093.2	085.3	39.76
071.0	000.1855	0142.5	014.2	305.7	005.6000	0093.2	085.2	39.79
072.0	000.1784	0142.4	014.1	305.6	005.6000	0093.1	085.1	39.82
073.0	000.1705	0142.2	013.9	305.4	005.6000	0093.1	085.0	39.84
074.0	000.1637	0142.0	013.8	305.2	005.6000	0093.1	084.9	39.87
075.0	000.1562	0141.8	013.6	305.0	005.6000	0093.1	084.8	39.89
076.0	000.1488	0141.7	013.4	304.8	005.6000	0093.1	084.7	39.90
077.0	000.1425	0141.4	013.3	304.6	005.6000	0093.1	084.7	39.92
078.0	000.1354	0140.7	013.1	304.4	005.6000	0093.0	084.6	39.93
079.0	000.1294	0139.9	012.9	304.2	005.6000	0093.0	084.6	39.93
080.0	000.1227	0138.9	012.7	304.0	005.6000	0093.0	084.6	39.93
081.0	000.1177	0137.9	012.5	303.8	005.6000	0093.0	084.6	39.94
082.0	000.1129	0137.1	012.3	303.6	005.6000	0093.0	084.6	39.94
083.0	000.1082	0136.5	012.2	303.4	005.6000	0093.0	084.5	39.95
084.0	000.1036	0136.2	012.0	303.3	005.6000	0093.0	084.5	39.96
085.0	000.0991	0135.8	011.9	303.1	005.6000	0093.0	084.5	39.96
086.0	000.0939	0135.4	011.7	302.9	005.6000	0093.0	084.5	39.96
087.0	000.0896	0134.7	011.6	302.7	005.6000	0093.0	084.5	39.95
088.0	000.0854	0133.9	011.4	302.6	005.6000	0093.0	084.6	39.95

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April 2016

EXHIBIT B5 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
089.0	000.0813	0133.2	011.2	302.4	005.6000	0093.0	084.6	39.94
090.0	000.0773	0132.7	011.1	302.2	005.6000	0093.0	084.6	39.93
091.0	000.0754	0132.8	011.0	302.1	005.6000	0093.0	084.6	39.94
092.0	000.0734	0132.9	010.9	302.0	005.6000	0093.0	084.5	39.96
093.0	000.0715	0133.0	010.9	301.8	005.6000	0093.0	084.5	39.97
094.0	000.0696	0132.8	010.8	301.7	005.6000	0093.0	084.5	39.97
095.0	000.0678	0132.2	010.7	301.5	005.6000	0093.0	084.5	39.97
096.0	000.0665	0131.3	010.6	301.4	005.6000	0093.0	084.5	39.97
097.0	000.0647	0130.5	010.5	301.3	005.6000	0093.0	084.5	39.97
098.0	000.0629	0130.0	010.4	301.1	005.6000	0093.0	084.5	39.96
099.0	000.0612	0129.8	010.4	301.0	005.6000	0093.0	084.5	39.96
100.0	000.0594	0129.9	010.3	300.9	005.6000	0093.0	084.5	39.96
101.0	000.0588	0130.1	010.3	300.7	005.6000	0092.9	084.5	39.97
102.0	000.0577	0130.2	010.2	300.6	005.6000	0092.9	084.5	39.97
103.0	000.0571	0130.0	010.2	300.5	005.6000	0092.9	084.4	39.98
104.0	000.0560	0129.7	010.1	300.4	005.6000	0092.9	084.4	39.98
105.0	000.0554	0129.2	010.1	300.2	005.6000	0092.9	084.4	39.98
106.0	000.0549	0128.6	010.0	300.1	005.6000	0092.9	084.4	39.98
107.0	000.0538	0128.0	010.0	300.0	005.6000	0092.9	084.5	39.97
108.0	000.0532	0127.5	009.9	299.9	005.6000	0092.9	084.5	39.96
109.0	000.0521	0127.2	009.9	299.7	005.6000	0092.9	084.5	39.96
110.0	000.0516	0127.2	009.8	299.6	005.6000	0092.9	084.5	39.96
111.0	000.0516	0127.2	009.8	299.5	005.6000	0092.9	084.5	39.97
112.0	000.0511	0127.0	009.8	299.4	005.6000	0092.9	084.5	39.96
113.0	000.0511	0127.0	009.8	299.3	005.6000	0092.9	084.5	39.97
114.0	000.0505	0127.1	009.8	299.2	005.6000	0092.9	084.5	39.97
115.0	000.0505	0127.4	009.8	299.1	005.6000	0092.9	084.4	39.97
116.0	000.0500	0127.7	009.8	298.9	005.6000	0092.9	084.5	39.97
117.0	000.0500	0127.8	009.8	298.8	005.6000	0093.0	084.4	39.98
118.0	000.0495	0127.6	009.8	298.7	005.6000	0093.0	084.5	39.97
119.0	000.0495	0127.4	009.7	298.6	005.6000	0093.0	084.5	39.97
120.0	000.0490	0127.1	009.7	298.5	005.6000	0093.1	084.5	39.96
121.0	000.0495	0126.8	009.7	298.4	005.6000	0093.1	084.5	39.96
122.0	000.0500	0126.7	009.7	298.2	005.6000	0093.1	084.5	39.97
123.0	000.0511	0126.7	009.8	298.1	005.6000	0093.2	084.5	39.98
124.0	000.0516	0126.7	009.8	298.0	005.6000	0093.2	084.5	39.98
125.0	000.0521	0126.5	009.8	297.9	005.6000	0093.2	084.5	39.98
126.0	000.0527	0126.3	009.9	297.8	005.6000	0093.3	084.5	39.98
127.0	000.0532	0126.1	009.9	297.7	005.6000	0093.3	084.5	39.98
128.0	000.0543	0125.9	009.9	297.5	005.6000	0093.4	084.5	39.99
129.0	000.0549	0125.6	009.9	297.4	005.6000	0093.4	084.5	39.98
130.0	000.0554	0125.2	009.9	297.3	005.6000	0093.4	084.5	39.98
131.0	000.0571	0124.6	010.0	297.2	005.6000	0093.5	084.5	39.98
132.0	000.0588	0124.1	010.0	297.1	005.6000	0093.5	084.5	39.98

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WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B5 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
133.0	000.0612	0123.7	010.1	296.9	005.6000	0093.5	084.5	39.99
134.0	000.0629	0123.4	010.2	296.8	005.6000	0093.6	084.5	39.99
135.0	000.0647	0123.0	010.2	296.7	005.6000	0093.6	084.5	40.00
136.0	000.0665	0122.7	010.3	296.5	005.6000	0093.6	084.5	39.99
137.0	000.0684	0122.4	010.3	296.4	005.6000	0093.6	084.5	39.99
138.0	000.0709	0122.0	010.4	296.3	005.6000	0093.7	084.5	39.99
139.0	000.0728	0121.8	010.5	296.2	005.6000	0093.7	084.5	39.99
140.0	000.0747	0121.6	010.5	296.0	005.6000	0093.7	084.6	39.98
141.0	000.0780	0121.4	010.6	295.9	005.6000	0093.7	084.5	39.99
142.0	000.0813	0121.1	010.7	295.7	005.6000	0093.7	084.5	39.99
143.0	000.0847	0120.8	010.8	295.6	005.6000	0093.7	084.5	39.99
144.0	000.0882	0120.7	010.9	295.5	005.6000	0093.7	084.5	39.99
145.0	000.0925	0120.9	011.1	295.3	005.6000	0093.7	084.5	39.99
146.0	000.0961	0121.3	011.2	295.1	005.6000	0093.7	084.5	39.99
147.0	000.0998	0121.8	011.3	295.0	005.6000	0093.7	084.5	39.99
148.0	000.1036	0122.5	011.4	294.8	005.6000	0093.7	084.5	39.99
149.0	000.1074	0123.4	011.6	294.7	005.6000	0093.7	084.5	39.99
150.0	000.1113	0124.3	011.7	294.5	005.6000	0093.7	084.5	39.99
151.0	000.1169	0124.7	011.9	294.3	005.6000	0093.7	084.5	39.99
152.0	000.1227	0124.9	012.0	294.1	005.6000	0093.7	084.5	39.99
153.0	000.1294	0125.1	012.2	294.0	005.6000	0093.7	084.5	39.99
154.0	000.1354	0125.1	012.3	293.8	005.6000	0093.7	084.6	39.98
155.0	000.1416	0125.0	012.4	293.6	005.6000	0093.7	084.6	39.97
156.0	000.1479	0124.6	012.6	293.5	005.6000	0093.7	084.7	39.95
157.0	000.1543	0124.5	012.7	293.3	005.6000	0093.7	084.7	39.93
158.0	000.1618	0124.6	012.8	293.1	005.6000	0093.7	084.8	39.92
159.0	000.1686	0124.6	013.0	292.9	005.6000	0093.7	084.9	39.90
160.0	000.1754	0124.3	013.1	292.8	005.6000	0093.8	085.0	39.88
161.0	000.1845	0124.3	013.3	292.6	005.6000	0093.8	085.0	39.86
162.0	000.1937	0124.5	013.4	292.4	005.6000	0093.8	085.1	39.84
163.0	000.2032	0124.6	013.6	292.2	005.6000	0093.8	085.2	39.82
164.0	000.2129	0124.4	013.7	292.0	005.6000	0093.8	085.3	39.80
165.0	000.2240	0124.2	013.9	291.9	005.6000	0093.9	085.3	39.77
166.0	000.2342	0124.0	014.1	291.7	005.6000	0093.9	085.5	39.74
167.0	000.2446	0124.0	014.2	291.5	005.6000	0093.9	085.6	39.71
168.0	000.2553	0124.3	014.4	291.3	005.6000	0093.9	085.7	39.68
169.0	000.2661	0124.6	014.6	291.1	005.6000	0093.9	085.8	39.65
170.0	000.2772	0124.8	014.7	290.9	005.6000	0093.8	085.9	39.61
171.0	000.2911	0125.0	014.9	290.7	005.6000	0093.8	086.1	39.58
172.0	000.3066	0125.2	015.2	290.5	005.6000	0093.8	086.2	39.54
173.0	000.3212	0125.4	015.4	290.3	005.6000	0093.8	086.3	39.50
174.0	000.3375	0125.5	015.6	290.1	005.6000	0093.8	086.5	39.46
175.0	000.3528	0125.7	015.8	289.9	005.6000	0093.8	086.6	39.42
176.0	000.3684	0125.4	016.0	289.7	005.6000	0093.8	086.8	39.37
177.0	000.3859	0123.9	016.1	289.6	005.6000	0093.8	087.0	39.31

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B6

WRDF - BLH-20040108AML
Channel = 292A
Max ERP = 5.6 kW
RCAMSL = 360.3 m
N. Lat. 41 12 49.0
W. Lng. 85 12 04.0

WUBU - Proposed
Channel = 292A
Max ERP = 1.4 kW
RCAMSL = 375.3 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
60 dBu

Interfering
40 dBu

FCC 30 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
239.0	005.6000	0100.3	027.9	134.8	000.0643	0123.1	083.7	22.20
240.0	005.6000	0100.3	027.9	134.7	000.0641	0123.2	083.2	22.33
241.0	005.6000	0100.3	027.9	134.6	000.0640	0123.2	082.8	22.46
242.0	005.6000	0100.3	027.9	134.5	000.0638	0123.2	082.3	22.58
243.0	005.6000	0100.3	027.9	134.4	000.0636	0123.3	081.8	22.71
244.0	005.6000	0100.3	027.9	134.3	000.0634	0123.3	081.4	22.83
245.0	005.6000	0100.3	027.9	134.2	000.0632	0123.3	080.9	22.95
246.0	005.6000	0100.3	027.9	134.1	000.0630	0123.4	080.4	23.07
247.0	005.6000	0100.3	027.9	133.9	000.0628	0123.4	080.0	23.19
248.0	005.6000	0100.3	027.9	133.8	000.0625	0123.4	079.5	23.30
249.0	005.6000	0100.3	027.9	133.6	000.0623	0123.5	079.1	23.42
250.0	005.6000	0100.3	027.9	133.5	000.0620	0123.5	078.7	23.53
251.0	005.6000	0100.3	027.9	133.3	000.0617	0123.6	078.2	23.64
252.0	005.6000	0100.3	027.9	133.2	000.0614	0123.6	077.8	23.75
253.0	005.6000	0100.3	027.9	133.0	000.0611	0123.7	077.4	23.85
254.0	005.6000	0100.1	027.9	132.8	000.0607	0123.7	077.0	23.95
255.0	005.6000	0100.0	027.9	132.6	000.0602	0123.8	076.6	24.04
256.0	005.6000	0099.6	027.8	132.4	000.0597	0123.9	076.2	24.12
257.0	005.6000	0099.3	027.8	132.1	000.0592	0124.0	075.8	24.20
258.0	005.6000	0099.0	027.7	131.9	000.0587	0124.1	075.4	24.28
259.0	005.6000	0098.7	027.7	131.7	000.0583	0124.2	075.0	24.37
260.0	005.6000	0098.5	027.7	131.4	000.0579	0124.3	074.7	24.45
261.0	005.6000	0098.4	027.6	131.2	000.0574	0124.5	074.3	24.54
262.0	005.6000	0098.1	027.6	130.9	000.0570	0124.6	074.0	24.62
263.0	005.6000	0097.8	027.6	130.7	000.0565	0124.8	073.6	24.69
264.0	005.6000	0097.4	027.5	130.4	000.0561	0125.0	073.3	24.76
265.0	005.6000	0097.0	027.5	130.1	000.0556	0125.2	073.0	24.83
266.0	005.6000	0096.5	027.4	129.8	000.0553	0125.3	072.7	24.90
267.0	005.6000	0096.1	027.3	129.5	000.0552	0125.5	072.4	24.99
268.0	005.6000	0095.9	027.3	129.2	000.0550	0125.6	072.1	25.07
269.0	005.6000	0095.8	027.3	128.9	000.0548	0125.7	071.8	25.16
270.0	005.6000	0095.7	027.3	128.6	000.0547	0125.8	071.5	25.24
271.0	005.6000	0095.6	027.3	128.3	000.0545	0125.8	071.2	25.32

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B 6 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
272.0	005.6000	0095.6	027.3	128.0	000.0543	0125.9	070.9	25.39
273.0	005.6000	0095.7	027.3	127.7	000.0540	0125.9	070.6	25.46
274.0	005.6000	0095.9	027.3	127.4	000.0536	0126.0	070.3	25.52
275.0	005.6000	0096.0	027.3	127.1	000.0533	0126.0	070.1	25.59
276.0	005.6000	0096.0	027.3	126.7	000.0531	0126.1	069.8	25.65
277.0	005.6000	0096.0	027.3	126.4	000.0529	0126.2	069.6	25.71
278.0	005.6000	0096.0	027.3	126.0	000.0527	0126.2	069.3	25.77
279.0	005.6000	0095.7	027.3	125.7	000.0525	0126.3	069.2	25.82
280.0	005.6000	0095.2	027.2	125.3	000.0523	0126.4	069.0	25.86
281.0	005.6000	0094.6	027.1	124.9	000.0521	0126.5	068.9	25.89
282.0	005.6000	0094.2	027.1	124.5	000.0519	0126.6	068.7	25.92
283.0	005.6000	0094.0	027.1	124.2	000.0517	0126.7	068.6	25.95
284.0	005.6000	0093.9	027.0	123.8	000.0515	0126.7	068.4	25.99
285.0	005.6000	0093.8	027.0	123.4	000.0513	0126.7	068.3	26.02
286.0	005.6000	0093.7	027.0	123.0	000.0511	0126.7	068.1	26.04
287.0	005.6000	0093.7	027.0	122.7	000.0507	0126.7	068.0	26.05
288.0	005.6000	0093.7	027.0	122.3	000.0503	0126.7	067.9	26.06
289.0	005.6000	0093.8	027.0	121.9	000.0500	0126.7	067.7	26.07
290.0	005.6000	0093.8	027.0	121.5	000.0497	0126.8	067.6	26.09
291.0	005.6000	0093.9	027.0	121.1	000.0495	0126.8	067.5	26.10
292.0	005.6000	0093.8	027.0	120.7	000.0493	0126.9	067.5	26.11
293.0	005.6000	0093.7	027.0	120.3	000.0491	0127.0	067.4	26.12
294.0	005.6000	0093.7	027.0	119.9	000.0490	0127.1	067.3	26.13
295.0	005.6000	0093.7	027.0	119.5	000.0492	0127.3	067.3	26.17
296.0	005.6000	0093.7	027.0	119.1	000.0494	0127.4	067.3	26.21
297.0	005.6000	0093.5	027.0	118.7	000.0495	0127.5	067.3	26.22
298.0	005.6000	0093.2	027.0	118.3	000.0495	0127.6	067.3	26.22
299.0	005.6000	0092.9	026.9	117.9	000.0495	0127.7	067.3	26.21
300.0	005.6000	0092.9	026.9	117.5	000.0497	0127.7	067.3	26.23
301.0	005.6000	0093.0	026.9	117.1	000.0499	0127.8	067.3	26.25
302.0	005.6000	0093.0	026.9	116.7	000.0500	0127.8	067.4	26.25
303.0	005.6000	0093.0	026.9	116.3	000.0500	0127.7	067.4	26.23
304.0	005.6000	0093.0	026.9	115.9	000.0500	0127.7	067.5	26.21
305.0	005.6000	0093.1	026.9	115.5	000.0503	0127.6	067.5	26.21
306.0	005.6000	0093.2	026.9	115.1	000.0505	0127.5	067.6	26.20
307.0	005.6000	0093.2	027.0	114.7	000.0505	0127.3	067.7	26.17
308.0	005.6000	0093.3	027.0	114.4	000.0505	0127.2	067.8	26.14
309.0	005.6000	0093.6	027.0	114.0	000.0506	0127.1	067.8	26.11
310.0	005.6000	0093.8	027.0	113.6	000.0508	0127.0	067.9	26.09
311.0	005.6000	0093.9	027.1	113.2	000.0510	0127.0	068.0	26.07
312.0	005.6000	0094.0	027.1	112.8	000.0511	0127.0	068.2	26.04
313.0	005.6000	0094.0	027.1	112.4	000.0511	0127.0	068.3	25.99
314.0	005.6000	0093.9	027.0	112.1	000.0511	0127.0	068.5	25.94
315.0	005.6000	0093.8	027.0	111.7	000.0512	0127.1	068.7	25.89

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B6 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
316.0	005.6000	0093.7	027.0	111.3	000.0514	0127.1	068.9	25.85
317.0	005.6000	0093.6	027.0	111.0	000.0516	0127.2	069.1	25.80
318.0	005.6000	0093.5	027.0	110.6	000.0516	0127.2	069.3	25.73
319.0	005.6000	0093.5	027.0	110.3	000.0516	0127.2	069.6	25.67
320.0	005.6000	0093.4	027.0	110.0	000.0516	0127.2	069.8	25.60
321.0	005.6000	0093.4	027.0	109.6	000.0518	0127.2	070.0	25.54
322.0	005.6000	0093.4	027.0	109.3	000.0520	0127.2	070.3	25.48
323.0	005.6000	0093.4	027.0	109.0	000.0522	0127.2	070.5	25.41
324.0	005.6000	0093.1	026.9	108.7	000.0525	0127.3	070.8	25.35
325.0	005.6000	0092.6	026.9	108.4	000.0528	0127.3	071.2	25.28
326.0	005.6000	0092.0	026.8	108.1	000.0531	0127.4	071.5	25.20
327.0	005.6000	0091.8	026.8	107.9	000.0533	0127.5	071.8	25.13
328.0	005.6000	0091.9	026.8	107.6	000.0535	0127.7	072.1	25.06
329.0	005.6000	0092.1	026.8	107.3	000.0536	0127.8	072.4	25.00
330.0	005.6000	0092.3	026.8	107.0	000.0538	0128.0	072.7	24.93
331.0	005.6000	0092.3	026.8	106.7	000.0541	0128.2	073.0	24.86
332.0	005.6000	0092.3	026.8	106.5	000.0544	0128.3	073.3	24.79
333.0	005.6000	0092.2	026.8	106.2	000.0547	0128.5	073.6	24.72
334.0	005.6000	0092.1	026.8	106.0	000.0549	0128.6	074.0	24.64
335.0	005.6000	0091.8	026.8	105.7	000.0550	0128.8	074.4	24.54
336.0	005.6000	0091.5	026.7	105.5	000.0551	0128.9	074.8	24.44
337.0	005.6000	0091.2	026.7	105.3	000.0553	0129.0	075.1	24.34
338.0	005.6000	0091.1	026.7	105.1	000.0554	0129.1	075.5	24.24
339.0	005.6000	0091.0	026.6	104.9	000.0555	0129.3	075.9	24.14
340.0	005.6000	0091.0	026.6	104.7	000.0556	0129.4	076.3	24.05
341.0	005.6000	0091.1	026.7	104.5	000.0557	0129.5	076.6	23.95
342.0	005.6000	0091.1	026.7	104.3	000.0558	0129.6	077.0	23.84
343.0	005.6000	0091.1	026.7	104.1	000.0559	0129.7	077.4	23.74
344.0	005.6000	0091.4	026.7	103.9	000.0561	0129.7	077.8	23.64
345.0	005.6000	0092.3	026.8	103.7	000.0564	0129.8	078.1	23.56
346.0	005.6000	0093.3	027.0	103.4	000.0567	0129.9	078.5	23.49
347.0	005.6000	0093.9	027.0	103.2	000.0569	0129.9	078.9	23.40
348.0	005.6000	0094.1	027.1	103.0	000.0571	0130.0	079.3	23.29
349.0	005.6000	0094.3	027.1	102.9	000.0572	0130.0	079.7	23.18
350.0	005.6000	0094.4	027.1	102.7	000.0573	0130.1	080.1	23.06
351.0	005.6000	0094.5	027.1	102.6	000.0574	0130.1	080.6	22.94
352.0	005.6000	0094.5	027.1	102.5	000.0574	0130.1	081.0	22.82
353.0	005.6000	0094.8	027.2	102.3	000.0575	0130.2	081.4	22.70
354.0	005.6000	0095.2	027.2	102.2	000.0576	0130.2	081.9	22.58
355.0	005.6000	0095.7	027.3	102.0	000.0577	0130.2	082.3	22.46
356.0	005.6000	0096.1	027.3	101.9	000.0578	0130.2	082.7	22.34
357.0	005.6000	0096.3	027.4	101.8	000.0579	0130.2	083.2	22.22
358.0	005.6000	0096.3	027.4	101.7	000.0580	0130.2	083.6	22.09

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B7

WUBU - Proposed
Channel = 292A
Max ERP = 1.4 kW
RCAMSL = 375.3 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

WSRB - BLH-20031219AAA
Channel = 292A
Max ERP = 4.1 kW
RCAMSL = 309 m
N. Lat. 41 34 44.0
W. Lng. 87 32 47.0

Protected
60 dBu

Interfering
40 dBu

FCC 30 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
208.0	001.3391	0118.5	021.8	098.0	002.0481	0129.0	103.4	32.21
209.0	001.3694	0117.9	021.8	097.9	002.0480	0129.0	103.0	32.30
210.0	001.4000	0117.4	021.9	097.9	002.0479	0129.0	102.6	32.39
211.0	001.4000	0116.8	021.9	097.8	002.0475	0129.0	102.3	32.47
212.0	001.4000	0116.4	021.8	097.7	002.0471	0129.0	101.9	32.54
213.0	001.4000	0116.1	021.8	097.6	002.0468	0129.0	101.6	32.63
214.0	001.4000	0116.1	021.8	097.5	002.0465	0129.0	101.2	32.71
215.0	001.4000	0116.1	021.8	097.4	002.0462	0129.0	100.9	32.79
216.0	001.4000	0116.2	021.8	097.3	002.0458	0129.0	100.6	32.87
217.0	001.4000	0116.2	021.8	097.2	002.0455	0129.0	100.2	32.96
218.0	001.4000	0116.2	021.8	097.1	002.0451	0129.0	099.9	33.04
219.0	001.4000	0116.2	021.8	097.0	002.0447	0129.0	099.6	33.12
220.0	001.4000	0116.1	021.8	096.9	002.0443	0129.0	099.2	33.20
221.0	001.4000	0116.0	021.8	096.7	002.0439	0129.0	098.9	33.27
222.0	001.4000	0115.8	021.8	096.6	002.0434	0129.0	098.6	33.35
223.0	001.4000	0115.6	021.7	096.5	002.0429	0129.0	098.3	33.43
224.0	001.4000	0115.5	021.7	096.3	002.0425	0129.0	098.0	33.50
225.0	001.4000	0115.6	021.7	096.2	002.0420	0129.0	097.7	33.58
226.0	001.4000	0115.9	021.8	096.1	002.0416	0129.0	097.4	33.66
227.0	001.4000	0116.6	021.8	096.0	002.0412	0129.0	097.1	33.75
228.0	001.4000	0117.6	021.9	095.9	002.0408	0129.0	096.7	33.84
229.0	001.4000	0118.5	022.0	095.7	002.0404	0129.0	096.4	33.92
230.0	001.4000	0119.0	022.0	095.6	002.0399	0129.0	096.1	34.00
231.0	001.4000	0119.2	022.0	095.5	002.0394	0129.0	095.8	34.08
232.0	001.4000	0119.2	022.1	095.3	002.0388	0129.0	095.5	34.15
233.0	001.4000	0119.3	022.1	095.1	002.0382	0129.0	095.3	34.22
234.0	001.4000	0119.3	022.1	095.0	002.0376	0129.0	095.0	34.29
235.0	001.4000	0119.4	022.1	094.8	002.0370	0129.0	094.7	34.36
236.0	001.4000	0119.6	022.1	094.6	002.0364	0129.0	094.5	34.43
237.0	001.4000	0119.9	022.1	094.4	002.0359	0129.0	094.2	34.50
238.0	001.4000	0120.2	022.1	094.3	002.0352	0129.0	094.0	34.56

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B7 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
239.0	001.4000	0120.4	022.1	094.1	002.0346	0129.0	093.7	34.63
240.0	001.4000	0120.7	022.2	093.9	002.0340	0129.0	093.5	34.69
241.0	001.4000	0121.0	022.2	093.7	002.0333	0129.0	093.2	34.76
242.0	001.4000	0121.2	022.2	093.5	002.0326	0129.0	093.0	34.82
243.0	001.4000	0121.2	022.2	093.3	002.0319	0129.0	092.8	34.87
244.0	001.4000	0121.1	022.2	093.1	002.0312	0129.0	092.6	34.92
245.0	001.4000	0121.2	022.2	092.9	002.0305	0129.0	092.4	34.97
246.0	001.4000	0121.9	022.3	092.7	002.0298	0129.0	092.2	35.04
247.0	001.4000	0123.0	022.4	092.5	002.0291	0129.0	091.9	35.11
248.0	001.4000	0124.5	022.5	092.3	002.0285	0129.0	091.7	35.18
249.0	001.4000	0125.8	022.6	092.1	002.0278	0129.0	091.4	35.25
250.0	001.4000	0127.2	022.7	091.9	002.0271	0129.0	091.1	35.32
251.0	001.4000	0128.7	022.8	091.7	002.0264	0129.0	090.9	35.39
252.0	001.4000	0130.2	022.9	091.5	002.0257	0129.0	090.6	35.46
253.0	001.4000	0131.5	023.0	091.3	002.0249	0129.0	090.4	35.52
254.0	001.4000	0132.7	023.1	091.1	002.0242	0129.0	090.2	35.58
255.0	001.4000	0133.8	023.2	090.8	002.0234	0129.0	090.0	35.63
256.0	001.4000	0134.7	023.2	090.6	002.0226	0129.0	089.8	35.68
257.0	001.4000	0135.5	023.3	090.4	002.0217	0129.0	089.7	35.72
258.0	001.4000	0136.4	023.4	090.1	002.0209	0129.0	089.5	35.77
259.0	001.4000	0137.3	023.4	089.9	002.0222	0129.0	089.3	35.81
260.0	001.4000	0138.0	023.5	089.6	002.0254	0129.0	089.2	35.86
261.0	001.4000	0138.7	023.5	089.4	002.0286	0129.0	089.1	35.90
262.0	001.4000	0139.3	023.6	089.1	002.0319	0129.0	089.0	35.94
263.0	001.4000	0139.9	023.6	088.8	002.0352	0129.0	088.9	35.97
264.0	001.4000	0140.6	023.7	088.6	002.0385	0129.0	088.8	36.00
265.0	001.4000	0141.3	023.7	088.3	002.0419	0129.0	088.7	36.04
266.0	001.4000	0141.8	023.8	088.1	002.0452	0129.0	088.6	36.06
267.0	001.4000	0142.3	023.8	087.8	002.0486	0129.0	088.6	36.08
268.0	001.4000	0142.7	023.8	087.5	002.0521	0129.0	088.5	36.10
269.0	001.4000	0143.2	023.9	087.2	002.0555	0129.0	088.5	36.12
270.0	001.4000	0143.6	023.9	087.0	002.0590	0129.0	088.5	36.13
271.0	001.4000	0143.9	023.9	086.7	002.0624	0129.0	088.5	36.14
272.0	001.4000	0144.3	024.0	086.4	002.0659	0129.0	088.5	36.15
273.0	001.4000	0144.6	024.0	086.2	002.0694	0129.0	088.5	36.15
274.0	001.4000	0145.0	024.0	085.9	002.0728	0129.0	088.5	36.15
275.0	001.4000	0145.3	024.0	085.6	002.0763	0129.0	088.6	36.15
276.0	001.4000	0145.7	024.1	085.4	002.0798	0129.0	088.6	36.15
277.0	001.4000	0146.1	024.1	085.1	002.0833	0129.0	088.7	36.14
278.0	001.4000	0146.5	024.1	084.8	002.0868	0129.0	088.7	36.13
279.0	001.4000	0146.9	024.1	084.5	002.0902	0129.0	088.8	36.12
280.0	001.4000	0147.2	024.2	084.3	002.0937	0129.0	088.9	36.10
281.0	001.4000	0147.4	024.2	084.0	002.0971	0129.0	088.9	36.08
282.0	001.4000	0147.6	024.2	083.7	002.1005	0129.0	089.1	36.06

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B7 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
283.0	001.4000	0147.7	024.2	083.5	002.1038	0129.0	089.2	36.03
284.0	001.4000	0147.7	024.2	083.2	002.1072	0129.0	089.3	36.00
285.0	001.4000	0147.9	024.2	083.0	002.1105	0129.0	089.5	35.97
286.0	001.4000	0148.1	024.2	082.7	002.1138	0129.0	089.6	35.93
287.0	001.4000	0148.3	024.2	082.5	002.1170	0129.0	089.8	35.90
288.0	001.4000	0148.4	024.3	082.2	002.1202	0129.0	089.9	35.86
289.0	001.4000	0148.4	024.3	082.0	002.1234	0129.0	090.1	35.81
290.0	001.4000	0148.3	024.3	081.7	002.1265	0129.0	090.3	35.76
291.0	001.4000	0148.5	024.3	081.5	002.1296	0129.0	090.5	35.72
292.0	001.4000	0148.7	024.3	081.3	002.1328	0129.0	090.7	35.67
293.0	001.4000	0149.0	024.3	081.0	002.1358	0129.0	090.9	35.62
294.0	001.4000	0149.1	024.3	080.8	002.1388	0129.0	091.1	35.57
295.0	001.4000	0149.2	024.3	080.6	002.1418	0129.0	091.3	35.51
296.0	001.4000	0149.2	024.3	080.3	002.1446	0129.0	091.6	35.45
297.0	001.4000	0149.1	024.3	080.1	002.1474	0129.0	091.8	35.39
298.0	001.4000	0149.0	024.3	079.9	002.1502	0129.0	092.1	35.32
299.0	001.4000	0148.9	024.3	079.7	002.1529	0129.0	092.3	35.25
300.0	001.4000	0148.8	024.3	079.5	002.1555	0129.0	092.6	35.18
301.0	001.4000	0148.8	024.3	079.3	002.1581	0129.0	092.9	35.11
302.0	001.4000	0148.8	024.3	079.1	002.1607	0129.0	093.2	35.04
303.0	001.4000	0148.7	024.3	078.9	002.1631	0129.0	093.4	34.97
304.0	001.4000	0148.5	024.3	078.7	002.1655	0129.0	093.8	34.89
305.0	001.4000	0148.2	024.2	078.6	002.1678	0129.0	094.1	34.81
306.0	001.4000	0148.1	024.2	078.4	002.1701	0129.0	094.4	34.73
307.0	001.4000	0148.3	024.3	078.2	002.1725	0129.0	094.7	34.65
308.0	001.4000	0148.8	024.3	078.0	002.1749	0129.0	095.0	34.58
309.0	001.4000	0149.3	024.3	077.9	002.1773	0129.0	095.3	34.50
310.0	001.4000	0149.8	024.4	077.7	002.1796	0129.0	095.6	34.43
311.0	001.4000	0150.3	024.4	077.5	002.1819	0129.0	095.9	34.35
312.0	001.4000	0150.5	024.4	077.3	002.1840	0129.0	096.2	34.26
313.0	001.4000	0150.6	024.4	077.2	002.1860	0129.0	096.6	34.18
314.0	001.4000	0150.6	024.4	077.0	002.1879	0129.0	096.9	34.09
315.0	001.4000	0150.8	024.4	076.9	002.1898	0129.0	097.3	34.00
316.0	001.4000	0151.2	024.5	076.8	002.1918	0129.0	097.6	33.92
317.0	001.4000	0151.7	024.5	076.6	002.1937	0129.0	098.0	33.83
318.0	001.4000	0152.2	024.5	076.5	002.1956	0129.0	098.3	33.74
319.0	001.4000	0152.8	024.6	076.3	002.1975	0129.0	098.7	33.66
320.0	001.4000	0153.3	024.6	076.2	002.1993	0129.0	099.0	33.57
321.0	001.4000	0153.8	024.6	076.1	002.2010	0129.0	099.4	33.48
322.0	001.4000	0154.2	024.7	075.9	002.2026	0129.0	099.8	33.39
323.0	001.4000	0154.7	024.7	075.8	002.2042	0129.0	100.1	33.30
324.0	001.4000	0155.1	024.7	075.7	002.2056	0129.0	100.5	33.21
325.0	001.4000	0155.2	024.7	075.6	002.2069	0129.0	100.9	33.11
326.0	001.4000	0155.2	024.7	075.5	002.2081	0129.0	101.3	33.01

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B8

WSRB - BLH-20031219AAA
Channel = 292A
Max ERP = 4.1 kW
RCAMSL = 309 m
N. Lat. 41 34 44.0
W. Lng. 87 32 47.0

WUBU - Proposed
Channel = 292A
Max ERP = 1.4 kW
RCAMSL = 375.3 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
60 dBu

Interfering
40 dBu

FCC 30 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
027.0	002.7273	0129.0	026.5	281.4	001.4000	0147.5	102.0	31.56
028.0	002.6728	0129.0	026.4	281.2	001.4000	0147.5	101.5	31.66
029.0	002.6188	0129.0	026.2	281.1	001.4000	0147.5	101.1	31.76
030.0	002.5653	0129.0	026.1	280.9	001.4000	0147.4	100.8	31.85
031.0	002.5504	0129.0	026.1	280.8	001.4000	0147.4	100.3	31.96
032.0	002.5355	0129.0	026.1	280.7	001.4000	0147.4	099.9	32.06
033.0	002.5207	0129.0	026.0	280.6	001.4000	0147.4	099.5	32.17
034.0	002.5060	0129.0	026.0	280.5	001.4000	0147.3	099.1	32.27
035.0	002.4912	0129.0	026.0	280.4	001.4000	0147.3	098.7	32.37
036.0	002.4766	0129.0	025.9	280.2	001.4000	0147.3	098.3	32.47
037.0	002.4619	0129.0	025.9	280.1	001.4000	0147.2	097.9	32.57
038.0	002.4473	0129.0	025.9	279.9	001.4000	0147.2	097.6	32.67
039.0	002.4328	0129.0	025.8	279.8	001.4000	0147.1	097.2	32.77
040.0	002.4183	0129.0	025.8	279.6	001.4000	0147.1	096.8	32.87
041.0	002.4132	0129.0	025.8	279.5	001.4000	0147.0	096.4	32.97
042.0	002.4082	0129.0	025.8	279.3	001.4000	0147.0	096.1	33.07
043.0	002.4032	0129.0	025.8	279.2	001.4000	0146.9	095.7	33.17
044.0	002.3982	0129.0	025.7	279.0	001.4000	0146.9	095.4	33.26
045.0	002.3932	0129.0	025.7	278.9	001.4000	0146.8	095.0	33.36
046.0	002.3881	0129.0	025.7	278.7	001.4000	0146.7	094.6	33.45
047.0	002.3831	0129.0	025.7	278.5	001.4000	0146.7	094.3	33.54
048.0	002.3781	0129.0	025.7	278.3	001.4000	0146.6	094.0	33.63
049.0	002.3731	0129.0	025.7	278.1	001.4000	0146.5	093.6	33.72
050.0	002.3682	0129.0	025.7	278.0	001.4000	0146.4	093.3	33.81
051.0	002.3632	0129.0	025.7	277.8	001.4000	0146.4	093.0	33.90
052.0	002.3582	0129.0	025.6	277.6	001.4000	0146.3	092.7	33.98
053.0	002.3532	0129.0	025.6	277.4	001.4000	0146.2	092.4	34.06
054.0	002.3483	0129.0	025.6	277.1	001.4000	0146.1	092.1	34.14
055.0	002.3433	0129.0	025.6	276.9	001.4000	0146.0	091.8	34.22
056.0	002.3383	0129.0	025.6	276.7	001.4000	0146.0	091.5	34.30
057.0	002.3334	0129.0	025.6	276.5	001.4000	0145.9	091.3	34.37
058.0	002.3284	0129.0	025.6	276.3	001.4000	0145.8	091.0	34.45

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B8 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
059.0	002.3235	0129.0	025.6	276.0	001.4000	0145.7	090.7	34.52
060.0	002.3186	0129.0	025.5	275.8	001.4000	0145.6	090.5	34.58
061.0	002.3149	0129.0	025.5	275.6	001.4000	0145.5	090.2	34.65
062.0	002.3112	0129.0	025.5	275.3	001.4000	0145.4	090.0	34.71
063.0	002.3075	0129.0	025.5	275.1	001.4000	0145.3	089.8	34.77
064.0	002.3038	0129.0	025.5	274.8	001.4000	0145.2	089.6	34.83
065.0	002.3001	0129.0	025.5	274.6	001.4000	0145.2	089.3	34.89
066.0	002.2964	0129.0	025.5	274.3	001.4000	0145.1	089.1	34.95
067.0	002.2927	0129.0	025.5	274.1	001.4000	0145.0	089.0	35.00
068.0	002.2891	0129.0	025.5	273.8	001.4000	0144.9	088.8	35.05
069.0	002.2854	0129.0	025.5	273.5	001.4000	0144.8	088.6	35.10
070.0	002.2817	0129.0	025.5	273.3	001.4000	0144.7	088.4	35.14
071.0	002.2683	0129.0	025.4	273.0	001.4000	0144.6	088.3	35.18
072.0	002.2549	0129.0	025.4	272.7	001.4000	0144.5	088.2	35.21
073.0	002.2415	0129.0	025.4	272.4	001.4000	0144.4	088.1	35.24
074.0	002.2282	0129.0	025.3	272.2	001.4000	0144.4	088.0	35.26
075.0	002.2149	0129.0	025.3	271.9	001.4000	0144.3	087.9	35.29
076.0	002.2017	0129.0	025.3	271.6	001.4000	0144.2	087.8	35.31
077.0	002.1885	0129.0	025.2	271.3	001.4000	0144.1	087.7	35.32
078.0	002.1753	0129.0	025.2	271.0	001.4000	0144.0	087.6	35.34
079.0	002.1622	0129.0	025.2	270.7	001.4000	0143.9	087.6	35.35
080.0	002.1491	0129.0	025.1	270.5	001.4000	0143.8	087.5	35.36
081.0	002.1361	0129.0	025.1	270.2	001.4000	0143.6	087.5	35.36
082.0	002.1231	0129.0	025.1	269.9	001.4000	0143.5	087.5	35.37
083.0	002.1101	0129.0	025.0	269.6	001.4000	0143.4	087.5	35.37
084.0	002.0972	0129.0	025.0	269.3	001.4000	0143.3	087.5	35.36
085.0	002.0843	0129.0	025.0	269.0	001.4000	0143.2	087.5	35.36
086.0	002.0715	0129.0	024.9	268.7	001.4000	0143.0	087.5	35.35
087.0	002.0587	0129.0	024.9	268.4	001.4000	0142.9	087.5	35.33
088.0	002.0459	0129.0	024.8	268.2	001.4000	0142.8	087.5	35.32
089.0	002.0332	0129.0	024.8	267.9	001.4000	0142.7	087.6	35.30
090.0	002.0205	0129.0	024.8	267.6	001.4000	0142.6	087.6	35.28
091.0	002.0240	0129.0	024.8	267.3	001.4000	0142.4	087.7	35.27
092.0	002.0274	0129.0	024.8	267.0	001.4000	0142.3	087.7	35.25
093.0	002.0309	0129.0	024.8	266.8	001.4000	0142.2	087.7	35.24
094.0	002.0343	0129.0	024.8	266.5	001.4000	0142.1	087.8	35.22
095.0	002.0378	0129.0	024.8	266.2	001.4000	0141.9	087.8	35.19
096.0	002.0413	0129.0	024.8	265.9	001.4000	0141.8	087.9	35.17
097.0	002.0447	0129.0	024.8	265.6	001.4000	0141.6	088.0	35.14
098.0	002.0482	0129.0	024.9	265.4	001.4000	0141.5	088.1	35.11
099.0	002.0517	0129.0	024.9	265.1	001.4000	0141.3	088.2	35.07
100.0	002.0552	0129.0	024.9	264.8	001.4000	0141.1	088.3	35.03
101.0	002.0820	0129.0	024.9	264.5	001.4000	0140.9	088.3	35.01

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B8 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
102.0	002.1089	0128.9	025.0	264.2	001.4000	0140.7	088.4	34.98
103.0	002.1361	0128.4	025.0	264.0	001.4000	0140.6	088.5	34.94
104.0	002.1634	0127.6	025.0	263.7	001.4000	0140.4	088.7	34.89
105.0	002.1909	0126.4	025.0	263.4	001.4000	0140.2	088.9	34.83
106.0	002.2185	0125.2	025.0	263.2	001.4000	0140.0	089.1	34.76
107.0	002.2464	0124.1	025.0	262.9	001.4000	0139.9	089.3	34.70
108.0	002.2744	0123.5	025.0	262.7	001.4000	0139.7	089.4	34.64
109.0	002.3026	0123.3	025.0	262.4	001.4000	0139.5	089.6	34.59
110.0	002.3309	0123.6	025.1	262.2	001.4000	0139.3	089.7	34.55
111.0	002.3838	0123.9	025.3	261.9	001.4000	0139.2	089.8	34.52
112.0	002.4372	0124.2	025.4	261.6	001.4000	0139.0	089.9	34.48
113.0	002.4912	0124.1	025.6	261.3	001.4000	0138.8	090.0	34.44
114.0	002.5459	0123.7	025.6	261.0	001.4000	0138.7	090.2	34.38
115.0	002.6011	0123.4	025.7	260.7	001.4000	0138.5	090.4	34.33
116.0	002.6569	0123.3	025.9	260.5	001.4000	0138.3	090.5	34.27
117.0	002.7133	0123.2	026.0	260.2	001.4000	0138.2	090.7	34.21
118.0	002.7703	0123.1	026.1	259.9	001.4000	0138.0	090.9	34.15
119.0	002.8279	0123.1	026.2	259.7	001.4000	0137.8	091.1	34.09
120.0	002.8861	0123.0	026.3	259.4	001.4000	0137.6	091.3	34.02
121.0	002.9504	0123.1	026.4	259.1	001.4000	0137.4	091.5	33.95
122.0	003.0155	0123.1	026.6	258.9	001.4000	0137.2	091.8	33.88
123.0	003.0812	0123.0	026.7	258.6	001.4000	0137.0	092.0	33.80
124.0	003.1477	0122.7	026.8	258.4	001.4000	0136.8	092.3	33.72
125.0	003.2149	0122.3	026.9	258.1	001.4000	0136.6	092.5	33.63
126.0	003.2827	0121.9	027.0	257.9	001.4000	0136.3	092.8	33.54
127.0	003.3513	0121.5	027.1	257.7	001.4000	0136.1	093.1	33.45
128.0	003.4206	0121.1	027.2	257.4	001.4000	0135.9	093.4	33.36
129.0	003.4906	0120.6	027.2	257.2	001.4000	0135.7	093.8	33.26
130.0	003.5614	0120.1	027.3	257.0	001.4000	0135.5	094.1	33.16
131.0	003.6027	0119.6	027.3	256.8	001.4000	0135.4	094.5	33.05
132.0	003.6444	0119.3	027.4	256.6	001.4000	0135.2	094.9	32.94
133.0	003.6862	0119.3	027.4	256.4	001.4000	0135.1	095.2	32.84
134.0	003.7283	0119.3	027.5	256.3	001.4000	0134.9	095.6	32.73
135.0	003.7707	0119.3	027.6	256.1	001.4000	0134.7	096.0	32.63
136.0	003.8133	0119.3	027.7	255.9	001.4000	0134.6	096.3	32.52
137.0	003.8561	0119.1	027.7	255.7	001.4000	0134.4	096.8	32.40
138.0	003.8992	0118.8	027.7	255.6	001.4000	0134.3	097.2	32.29
139.0	003.9425	0118.5	027.8	255.4	001.4000	0134.2	097.6	32.18
140.0	003.9860	0118.1	027.8	255.3	001.4000	0134.0	098.0	32.06
141.0	003.9965	0117.8	027.8	255.2	001.4000	0134.0	098.5	31.94
142.0	004.0071	0117.5	027.8	255.1	001.4000	0133.9	098.9	31.82
143.0	004.0176	0117.3	027.8	255.0	001.4000	0133.8	099.4	31.70

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B9

WUBU - Proposed
Channel = 292A
Max ERP = 1.4 kW
RCAMSL = 375.3 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

WVFM - BLH-20060726ANY
Channel = 293B
Max ERP = 33 kW
RCAMSL = 452 m
N. Lat. 42 28 35.0
W. Lng. 85 29 05.0

Protected
60 dBu

Interfering
54 dBu

FCC 30 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
331.0	001.4000	0159.0	025.0	224.1	033.0000	0184.9	102.1	46.52
332.0	001.4000	0159.8	025.1	224.0	033.0000	0184.9	101.7	46.63
333.0	001.4000	0160.6	025.1	224.0	033.0000	0184.9	101.3	46.75
334.0	001.4000	0161.1	025.2	223.9	033.0000	0184.8	100.8	46.86
335.0	001.4000	0161.2	025.2	223.8	033.0000	0184.8	100.4	46.97
336.0	001.4000	0161.2	025.2	223.7	033.0000	0184.8	100.0	47.08
337.0	001.4000	0161.1	025.2	223.6	033.0000	0184.7	099.6	47.19
338.0	001.4000	0161.0	025.2	223.5	033.0000	0184.7	099.2	47.30
339.0	001.4000	0160.4	025.1	223.4	033.0000	0184.7	098.9	47.40
340.0	001.4000	0159.7	025.1	223.2	033.0000	0184.6	098.5	47.50
341.0	001.4000	0159.0	025.0	223.1	033.0000	0184.6	098.1	47.61
342.0	001.4000	0158.3	025.0	222.9	033.0000	0184.6	097.8	47.71
343.0	001.4000	0157.4	024.9	222.8	033.0000	0184.5	097.4	47.80
344.0	001.4000	0156.3	024.8	222.6	033.0000	0184.5	097.1	47.89
345.0	001.4000	0155.2	024.8	222.4	033.0000	0184.5	096.8	47.99
346.0	001.4000	0154.3	024.7	222.3	033.0000	0184.4	096.4	48.08
347.0	001.4000	0153.5	024.6	222.1	033.0000	0184.4	096.1	48.17
348.0	001.4000	0152.4	024.6	221.9	033.0000	0184.3	095.8	48.25
349.0	001.4000	0151.0	024.4	221.7	033.0000	0184.3	095.5	48.33
350.0	001.4000	0149.5	024.3	221.5	033.0000	0184.2	095.3	48.41
351.0	001.4000	0148.4	024.3	221.3	033.0000	0184.2	095.0	48.48
352.0	001.4000	0147.9	024.2	221.1	033.0000	0184.2	094.7	48.57
353.0	001.4000	0147.8	024.2	220.9	033.0000	0184.1	094.4	48.66
354.0	001.4000	0146.7	024.1	220.7	033.0000	0184.1	094.1	48.73
355.0	001.4000	0145.0	024.0	220.5	033.0000	0184.1	093.9	48.79
356.0	001.4000	0143.7	023.9	220.3	033.0000	0184.0	093.7	48.86
357.0	001.4000	0144.0	023.9	220.1	033.0000	0184.0	093.4	48.94
358.0	001.4000	0144.3	024.0	219.9	033.0000	0184.0	093.1	49.03
359.0	001.4000	0144.6	024.0	219.7	033.0000	0183.9	092.8	49.12
000.0	001.4000	0144.9	024.0	219.5	033.0000	0183.9	092.5	49.20
001.0	001.4000	0145.1	024.0	219.3	033.0000	0183.9	092.3	49.28
002.0	001.4000	0145.6	024.1	219.1	033.0000	0183.9	092.0	49.36
003.0	001.4000	0145.7	024.1	218.9	033.0000	0183.9	091.7	49.44
004.0	001.4000	0145.7	024.1	218.7	033.0000	0183.9	091.5	49.51
005.0	001.4000	0145.7	024.1	218.5	033.0000	0184.0	091.2	49.58
006.0	001.4000	0146.2	024.1	218.3	033.0000	0184.0	091.0	49.66
007.0	001.4000	0146.5	024.1	218.1	033.0000	0184.0	090.8	49.73
008.0	001.4000	0146.9	024.1	217.8	033.0000	0184.1	090.5	49.80

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B9 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
009.0	001.4000	0147.1	024.2	217.6	033.0000	0184.1	090.3	49.87
010.0	001.4000	0147.4	024.2	217.4	033.0000	0184.2	090.1	49.94
011.0	001.3694	0147.8	024.1	217.1	033.0000	0184.2	090.0	49.97
012.0	001.3391	0148.0	024.0	216.8	033.0000	0184.3	089.9	50.00
013.0	001.3091	0148.2	023.9	216.6	033.0000	0184.3	089.8	50.02
014.0	001.2795	0148.2	023.8	216.3	033.0000	0184.3	089.8	50.04
015.0	001.2529	0148.2	023.6	216.0	033.0000	0184.3	089.7	50.05
016.0	001.2239	0148.2	023.5	215.7	033.0000	0184.3	089.7	50.06
017.0	001.1953	0148.3	023.4	215.5	033.0000	0184.2	089.7	50.06
018.0	001.1670	0148.2	023.3	215.2	033.0000	0184.1	089.7	50.06
019.0	001.1390	0148.0	023.1	214.9	033.0000	0184.0	089.7	50.04
020.0	001.1114	0147.7	023.0	214.7	033.0000	0183.9	089.8	50.02
021.0	001.0990	0147.5	022.9	214.4	033.0000	0183.7	089.7	50.03
022.0	001.0866	0147.5	022.8	214.1	033.0000	0183.6	089.7	50.03
023.0	001.0743	0147.4	022.8	213.9	033.0000	0183.4	089.7	50.02
024.0	001.0621	0147.1	022.7	213.6	033.0000	0183.2	089.7	50.02
025.0	001.0499	0146.7	022.6	213.4	033.0000	0183.0	089.7	50.00
026.0	001.0378	0146.3	022.5	213.1	033.0000	0182.8	089.8	49.98
027.0	001.0258	0146.3	022.5	212.9	033.0000	0182.6	089.8	49.97
028.0	001.0139	0146.7	022.4	212.6	033.0000	0182.4	089.8	49.96
029.0	001.0020	0147.1	022.4	212.4	033.0000	0182.2	089.8	49.95
030.0	000.9902	0147.3	022.4	212.1	033.0000	0181.9	089.8	49.93
031.0	000.9668	0147.0	022.2	211.9	033.0000	0181.7	090.0	49.88
032.0	000.9437	0146.5	022.0	211.6	033.0000	0181.5	090.1	49.82
033.0	000.9185	0146.0	021.9	211.4	033.0000	0181.3	090.3	49.76
034.0	000.8960	0146.0	021.8	211.1	033.0000	0181.2	090.5	49.71
035.0	000.8737	0146.4	021.7	210.9	033.0000	0181.0	090.6	49.66
036.0	000.8518	0146.8	021.6	210.7	033.0000	0180.8	090.7	49.62
037.0	000.8301	0147.0	021.4	210.4	033.0000	0180.6	090.9	49.56
038.0	000.8065	0147.1	021.3	210.2	033.0000	0180.4	091.1	49.50
039.0	000.7854	0147.2	021.2	210.0	033.0000	0180.3	091.3	49.44
040.0	000.7646	0147.3	021.0	209.8	033.0000	0180.1	091.4	49.38
041.0	000.7338	0147.4	020.8	209.6	033.0000	0180.0	091.7	49.29
042.0	000.7038	0147.4	020.6	209.4	033.0000	0179.8	092.0	49.20
043.0	000.6743	0147.2	020.4	209.2	033.0000	0179.6	092.3	49.11
044.0	000.6455	0147.2	020.2	209.0	033.0000	0179.5	092.6	49.01
045.0	000.6173	0147.6	020.0	208.9	033.0000	0179.3	092.9	48.92
046.0	000.5879	0148.1	019.8	208.7	033.0000	0179.2	093.2	48.83
047.0	000.5610	0148.7	019.6	208.5	033.0000	0179.0	093.5	48.74
048.0	000.5347	0149.0	019.4	208.4	033.0000	0178.9	093.8	48.65
049.0	000.5091	0149.1	019.2	208.2	033.0000	0178.8	094.1	48.54
050.0	000.4840	0149.2	018.9	208.1	033.0000	0178.7	094.5	48.44
051.0	000.4645	0149.2	018.7	208.0	033.0000	0178.6	094.8	48.35
052.0	000.4453	0149.3	018.6	207.8	033.0000	0178.5	095.1	48.25
053.0	000.4266	0149.5	018.4	207.7	033.0000	0178.4	095.4	48.16
054.0	000.4082	0149.6	018.2	207.6	033.0000	0178.3	095.7	48.07
055.0	000.3903	0149.7	018.0	207.5	033.0000	0178.2	096.0	47.97
056.0	000.3728	0149.7	017.7	207.4	033.0000	0178.2	096.4	47.87
057.0	000.3556	0149.8	017.5	207.3	033.0000	0178.1	096.7	47.77

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B9 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
058.0	000.3389	0150.0	017.3	207.2	033.0000	0178.1	097.0	47.68
059.0	000.3226	0150.3	017.1	207.1	033.0000	0178.1	097.4	47.58
060.0	000.3066	0150.4	016.9	207.0	033.0000	0178.0	097.7	47.48
061.0	000.2937	0150.2	016.7	207.0	033.0000	0178.0	098.1	47.38
062.0	000.2822	0149.5	016.4	206.9	033.0000	0178.0	098.4	47.28
063.0	000.2698	0148.4	016.1	206.9	033.0000	0178.0	098.8	47.17
064.0	000.2589	0147.3	015.9	206.8	033.0000	0177.9	099.2	47.07
065.0	000.2470	0146.2	015.6	206.8	033.0000	0177.9	099.6	46.96
066.0	000.2353	0145.2	015.3	206.8	033.0000	0177.9	100.0	46.86
067.0	000.2251	0144.2	015.1	206.7	033.0000	0177.9	100.3	46.77
068.0	000.2140	0143.4	014.8	206.7	033.0000	0177.9	100.7	46.67
069.0	000.2043	0142.9	014.6	206.7	033.0000	0177.9	101.0	46.58
070.0	000.1937	0142.7	014.4	206.7	033.0000	0177.9	101.3	46.50
071.0	000.1855	0142.5	014.2	206.6	033.0000	0177.9	101.6	46.42
072.0	000.1784	0142.4	014.1	206.6	033.0000	0177.9	101.9	46.35
073.0	000.1705	0142.2	013.9	206.6	033.0000	0177.9	102.2	46.27
074.0	000.1637	0142.0	013.8	206.5	033.0000	0177.9	102.5	46.20
075.0	000.1562	0141.8	013.6	206.5	033.0000	0177.9	102.8	46.12
076.0	000.1488	0141.7	013.4	206.5	033.0000	0177.9	103.1	46.05
077.0	000.1425	0141.4	013.3	206.5	033.0000	0177.9	103.4	45.98
078.0	000.1354	0140.7	013.1	206.5	033.0000	0177.9	103.7	45.90
079.0	000.1294	0139.9	012.9	206.5	033.0000	0177.9	104.0	45.83
080.0	000.1227	0138.9	012.7	206.5	033.0000	0177.9	104.3	45.75
081.0	000.1177	0137.9	012.5	206.5	033.0000	0177.9	104.5	45.68
082.0	000.1129	0137.1	012.3	206.6	033.0000	0177.9	104.8	45.61
083.0	000.1082	0136.5	012.2	206.6	033.0000	0177.9	105.1	45.55
084.0	000.1036	0136.2	012.0	206.6	033.0000	0177.9	105.3	45.49
085.0	000.0991	0135.8	011.9	206.6	033.0000	0177.9	105.6	45.42
086.0	000.0939	0135.4	011.7	206.6	033.0000	0177.9	105.9	45.36
087.0	000.0896	0134.7	011.6	206.6	033.0000	0177.9	106.1	45.30
088.0	000.0854	0133.9	011.4	206.6	033.0000	0177.9	106.4	45.24
089.0	000.0813	0133.2	011.2	206.7	033.0000	0177.9	106.6	45.18
090.0	000.0773	0132.7	011.1	206.7	033.0000	0177.9	106.9	45.12

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B10

WVFM - BLH-20060726ANY
Channel = 293B
Max ERP = 33 kW
RCAMSL = 452 m
N. Lat. 42 28 35.0
W. Lng. 85 29 05.0

WUBU - Proposed
Channel = 292A
Max ERP = 1.4 kW
RCAMSL = 375.3 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
54 dBu

Interfering
48 dBu

FCC 30 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
152.0	033.0000	0178.7	064.4	066.2	000.2334	0145.0	097.3	24.89
153.0	033.0000	0178.8	064.4	066.2	000.2329	0144.9	096.1	25.18
154.0	033.0000	0179.0	064.4	066.3	000.2323	0144.9	095.0	25.47
155.0	033.0000	0179.2	064.4	066.3	000.2319	0144.8	093.9	25.78
156.0	033.0000	0179.3	064.4	066.4	000.2317	0144.8	092.8	26.09
157.0	033.0000	0179.3	064.4	066.4	000.2317	0144.8	091.7	26.40
158.0	033.0000	0179.0	064.4	066.3	000.2320	0144.8	090.5	26.73
159.0	033.0000	0178.3	064.3	066.3	000.2326	0144.9	089.4	27.07
160.0	033.0000	0177.3	064.2	066.2	000.2337	0145.0	088.3	27.42
161.0	033.0000	0176.3	064.1	066.0	000.2349	0145.1	087.2	27.77
162.0	033.0000	0175.7	064.1	065.9	000.2361	0145.2	086.1	28.12
163.0	033.0000	0175.5	064.0	065.8	000.2372	0145.3	085.0	28.48
164.0	033.0000	0175.3	064.0	065.7	000.2384	0145.5	083.9	28.83
165.0	033.0000	0175.0	064.0	065.6	000.2400	0145.6	082.8	29.20
166.0	033.0000	0174.7	064.0	065.4	000.2417	0145.8	081.7	29.57
167.0	033.0000	0174.6	063.9	065.3	000.2435	0145.9	080.6	29.94
168.0	033.0000	0174.5	063.9	065.1	000.2455	0146.1	079.5	30.31
169.0	033.0000	0174.4	063.9	064.9	000.2477	0146.3	078.4	30.69
170.0	033.0000	0174.3	063.9	064.7	000.2502	0146.5	077.3	31.08
171.0	033.0000	0174.3	063.9	064.5	000.2528	0146.7	076.2	31.46
172.0	033.0000	0174.3	063.9	064.3	000.2557	0147.0	075.2	31.86
173.0	033.0000	0174.5	063.9	064.0	000.2587	0147.2	074.1	32.26
174.0	033.0000	0174.7	064.0	063.7	000.2616	0147.5	073.0	32.65
175.0	033.0000	0174.4	063.9	063.4	000.2652	0147.9	072.0	33.06
176.0	033.0000	0174.0	063.9	063.1	000.2692	0148.3	071.0	33.47
177.0	033.0000	0173.6	063.8	062.7	000.2740	0148.7	070.0	33.89
178.0	033.0000	0174.3	063.9	062.3	000.2780	0149.1	068.9	34.31
179.0	033.0000	0175.0	064.0	062.0	000.2825	0149.5	067.9	34.74
180.0	033.0000	0175.1	064.0	061.6	000.2873	0149.9	066.9	35.16
181.0	033.0000	0174.9	064.0	061.1	000.2928	0150.2	065.9	35.57
182.0	033.0000	0174.7	064.0	060.6	000.2992	0150.4	065.0	35.99
183.0	033.0000	0174.6	064.0	060.0	000.3060	0150.4	064.0	36.41
184.0	033.0000	0174.5	063.9	059.5	000.3148	0150.4	063.1	36.84
185.0	033.0000	0174.8	064.0	058.9	000.3239	0150.3	062.2	37.28
186.0	033.0000	0175.2	064.0	058.3	000.3333	0150.1	061.2	37.72
187.0	033.0000	0175.6	064.1	057.7	000.3435	0149.9	060.3	38.17
188.0	033.0000	0176.1	064.1	057.1	000.3543	0149.8	059.4	38.62
189.0	033.0000	0176.4	064.1	056.4	000.3662	0149.8	058.6	39.07

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B10 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
190.0	033.0000	0176.6	064.2	055.6	000.3790	0149.7	057.7	39.53
191.0	033.0000	0177.1	064.2	054.9	000.3922	0149.7	056.9	39.99
192.0	033.0000	0177.7	064.3	054.1	000.4062	0149.6	056.1	40.44
193.0	033.0000	0178.1	064.3	053.3	000.4215	0149.5	055.3	40.89
194.0	033.0000	0178.4	064.3	052.4	000.4378	0149.4	054.6	41.33
195.0	033.0000	0178.8	064.4	051.5	000.4551	0149.3	053.9	41.77
196.0	033.0000	0179.2	064.4	050.5	000.4734	0149.2	053.2	42.20
197.0	033.0000	0179.4	064.4	049.5	000.4955	0149.1	052.5	42.65
198.0	033.0000	0178.9	064.4	048.5	000.5227	0149.1	052.0	43.09
199.0	033.0000	0178.0	064.3	047.3	000.5520	0148.8	051.5	43.50
200.0	033.0000	0177.2	064.2	046.2	000.5829	0148.2	051.0	43.88
201.0	033.0000	0176.8	064.2	045.0	000.6165	0147.6	050.6	44.26
202.0	033.0000	0176.7	064.2	043.9	000.6497	0147.2	050.2	44.64
203.0	033.0000	0177.0	064.2	042.7	000.6841	0147.3	049.7	45.03
204.0	033.0000	0177.4	064.2	041.5	000.7200	0147.4	049.3	45.42
205.0	033.0000	0177.7	064.3	040.2	000.7579	0147.4	049.0	45.78
206.0	033.0000	0177.8	064.3	038.9	000.7866	0147.2	048.7	46.05
207.0	033.0000	0178.0	064.3	037.7	000.8146	0147.1	048.4	46.29
208.0	033.0000	0178.6	064.4	036.4	000.8440	0146.9	048.2	46.53
209.0	033.0000	0179.4	064.4	035.0	000.8729	0146.4	047.9	46.75
210.0	033.0000	0180.3	064.5	033.7	000.9026	0146.0	047.7	46.94
211.0	033.0000	0181.0	064.6	032.4	000.9346	0146.3	047.6	47.16
212.0	033.0000	0181.9	064.7	031.0	000.9668	0147.0	047.5	47.38
213.0	033.0000	0182.7	064.8	029.6	000.9945	0147.3	047.5	47.54
214.0	033.0000	0183.5	064.8	028.3	001.0107	0146.8	047.5	47.59
215.0	033.0000	0184.0	064.9	026.9	001.0270	0146.3	047.5	47.60
216.0	033.0000	0184.3	064.9	025.5	001.0433	0146.5	047.7	47.62
217.0	033.0000	0184.2	064.9	024.2	001.0594	0147.1	047.9	47.63
218.0	033.0000	0184.0	064.9	022.9	001.0754	0147.4	048.2	47.60
219.0	033.0000	0183.9	064.9	021.6	001.0913	0147.5	048.5	47.54
220.0	033.0000	0184.0	064.9	020.4	001.1070	0147.6	048.9	47.48
221.0	033.0000	0184.1	064.9	019.1	001.1361	0147.9	049.2	47.46
222.0	033.0000	0184.4	064.9	017.9	001.1703	0148.3	049.6	47.45
223.0	033.0000	0184.6	065.0	016.7	001.2041	0148.3	050.1	47.39
224.0	033.0000	0184.9	065.0	015.5	001.2376	0148.2	050.6	47.32
225.0	033.0000	0185.2	065.0	014.4	001.2691	0148.2	051.1	47.23
226.0	033.0000	0185.7	065.1	013.3	001.3008	0148.2	051.7	47.12
227.0	033.0000	0186.2	065.1	012.2	001.3328	0148.1	052.2	46.99
228.0	033.0000	0186.5	065.1	011.2	001.3640	0147.8	052.9	46.84
229.0	033.0000	0186.7	065.2	010.2	001.3942	0147.5	053.6	46.66
230.0	033.0000	0186.8	065.2	009.2	001.4000	0147.2	054.3	46.38
231.0	033.0000	0186.9	065.2	008.3	001.4000	0147.0	055.0	46.09
232.0	033.0000	0187.4	065.2	007.5	001.4000	0146.6	055.8	45.79
233.0	033.0000	0188.2	065.3	006.6	001.4000	0146.4	056.5	45.49
234.0	033.0000	0189.6	065.4	005.7	001.4000	0146.0	057.2	45.19
235.0	033.0000	0191.4	065.6	004.8	001.4000	0145.7	058.0	44.90
236.0	033.0000	0193.2	065.8	004.0	001.4000	0145.7	058.8	44.61
237.0	033.0000	0194.8	065.9	003.2	001.4000	0145.7	059.6	44.31
238.0	033.0000	0196.3	066.1	002.4	001.4000	0145.6	060.4	44.00
239.0	033.0000	0197.8	066.2	001.7	001.4000	0145.5	061.3	43.68

MODIFY BPH-20151231ABD
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 1.4 kW
SOUTH BEND, INDIANA
April 2016

EXHIBIT B10 (continued)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
240.0	033.0000	0199.3	066.4	001.0	001.4000	0145.1	062.2	43.35
241.0	033.0000	0200.7	066.5	000.4	001.4000	0145.0	063.1	43.02
242.0	033.0000	0201.9	066.6	359.8	001.4000	0144.8	064.1	42.69
243.0	033.0000	0203.0	066.7	359.2	001.4000	0144.7	065.1	42.36
244.0	033.0000	0203.7	066.8	358.7	001.4000	0144.6	066.1	42.02
245.0	033.0000	0204.0	066.8	358.3	001.4000	0144.4	067.2	41.67
246.0	033.0000	0204.1	066.8	357.9	001.4000	0144.3	068.2	41.31
247.0	033.0000	0204.1	066.8	357.5	001.4000	0144.1	069.3	40.96
248.0	033.0000	0204.1	066.8	357.2	001.4000	0144.0	070.4	40.60
249.0	033.0000	0204.2	066.8	356.9	001.4000	0143.9	071.5	40.25
250.0	033.0000	0204.3	066.9	356.6	001.4000	0143.8	072.6	39.89
251.0	033.0000	0204.4	066.9	356.3	001.4000	0143.7	073.7	39.54
252.0	033.0000	0204.6	066.9	356.1	001.4000	0143.7	074.8	39.19
253.0	033.0000	0205.1	066.9	355.8	001.4000	0143.9	076.0	38.85
254.0	033.0000	0205.8	067.0	355.6	001.4000	0144.2	077.1	38.52
255.0	033.0000	0206.7	067.1	355.3	001.4000	0144.5	078.2	38.18
256.0	033.0000	0207.4	067.1	355.1	001.4000	0144.8	079.4	37.85
257.0	033.0000	0208.1	067.2	355.0	001.4000	0145.1	080.5	37.51
258.0	033.0000	0209.0	067.3	354.8	001.4000	0145.4	081.7	37.18
259.0	033.0000	0209.8	067.4	354.6	001.4000	0145.6	082.8	36.84
260.0	033.0000	0210.6	067.4	354.5	001.4000	0145.9	084.0	36.50
261.0	033.0000	0211.5	067.5	354.4	001.4000	0146.1	085.1	36.16
262.0	033.0000	0212.7	067.6	354.3	001.4000	0146.3	086.3	35.82
263.0	033.0000	0213.9	067.8	354.2	001.4000	0146.4	087.5	35.48
264.0	033.0000	0214.8	067.8	354.1	001.4000	0146.6	088.7	35.14
265.0	033.0000	0215.6	067.9	354.1	001.4000	0146.6	089.9	34.80
266.0	033.0000	0216.0	067.9	354.0	001.4000	0146.7	091.0	34.46
267.0	033.0000	0215.0	067.9	354.1	001.4000	0146.5	092.2	34.12
268.0	033.0000	0214.0	067.8	354.2	001.4000	0146.4	093.4	33.78
269.0	033.0000	0212.9	067.7	354.3	001.4000	0146.2	094.6	33.45
270.0	033.0000	0212.0	067.6	354.4	001.4000	0146.0	095.8	33.12
271.0	033.0000	0211.4	067.5	354.5	001.4000	0145.8	096.9	32.80

MODIFY BPH-20151231ABD
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SOUTH BEND, INDIANA
April 2016

EXHIBIT B11

§73.215 Allocation Contour Tabulation

N. Lat. = 413658.8 - Protected and Interfering Contours Tabulation
W. Lng. = 861144.0 - WUBU, South Bend, Indiana

HAAT and Distance to Contour - FCC 30 second terrain database									
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	100-F1	54-F1	40-F1
000	230.4	144.9	1.4000	1.46	1.000	24.00	2.00	36.00	72.43
010	227.9	147.4	1.4000	1.46	1.000	24.19	2.01	36.30	72.83
020	227.6	147.7	1.1114	0.46	0.891	22.98	1.85	34.31	69.73
030	228.0	147.3	0.9902	-0.04	0.841	22.35	1.77	33.27	68.11
040	228.0	147.3	0.7646	-1.17	0.739	21.05	1.59	31.12	64.69
050	226.1	149.2	0.4840	-3.15	0.588	18.94	1.54	27.97	59.27
060	224.9	150.4	0.3066	-5.13	0.468	16.87	1.23	25.13	54.16
070	232.6	142.7	0.1937	-7.13	0.372	14.41	0.98	21.75	47.96
080	236.4	138.9	0.1227	-9.11	0.296	12.67	0.78	18.91	42.68
090	242.6	132.7	0.0773	-11.12	0.235	11.07	0.62	15.97	37.48
100	245.4	129.9	0.0594	-12.26	0.206	10.29	0.54	14.43	34.73
110	248.1	127.2	0.0516	-12.87	0.192	9.84	0.50	13.77	33.13
120	248.2	127.1	0.0490	-13.10	0.187	9.71	0.49	13.58	32.65
130	250.1	125.2	0.0554	-12.56	0.199	9.94	0.52	13.91	33.50
140	253.7	121.6	0.0747	-11.27	0.231	10.54	0.61	14.82	35.73
150	251.0	124.3	0.1113	-9.53	0.282	11.72	0.74	17.21	39.86
160	251.0	124.3	0.1754	-7.56	0.354	13.09	0.93	19.65	44.47
170	250.5	124.8	0.2772	-5.57	0.445	14.74	1.17	22.24	49.52
180	254.9	120.4	0.4375	-3.59	0.559	16.43	1.47	24.53	53.98
190	255.0	120.3	0.6978	-1.56	0.706	18.66	1.61	27.52	59.32
200	254.9	120.4	1.1040	0.43	0.888	20.94	1.76	30.90	65.15
210	257.9	117.4	1.4000	1.46	1.000	21.90	1.89	32.51	67.90
220	259.2	116.1	1.4000	1.46	1.000	21.79	1.89	32.32	67.68
230	256.3	119.0	1.4000	1.46	1.000	22.04	1.90	32.74	68.18
240	254.6	120.7	1.4000	1.46	1.000	22.17	1.91	32.96	68.46
250	248.1	127.2	1.4000	1.46	1.000	22.67	1.93	33.81	69.55
260	237.3	138.0	1.4000	1.46	1.000	23.49	1.97	35.17	71.34
270	231.7	143.6	1.4000	1.46	1.000	23.90	1.99	35.85	72.22
280	228.1	147.2	1.4000	1.46	1.000	24.17	2.01	36.28	72.80
290	227.0	148.3	1.4000	1.46	1.000	24.25	2.01	36.41	72.97
300	226.5	148.8	1.4000	1.46	1.000	24.29	2.01	36.47	73.05
310	225.5	149.8	1.4000	1.46	1.000	24.36	2.02	36.58	73.20
320	222.0	153.3	1.4000	1.46	1.000	24.61	2.03	36.98	73.73
330	217.1	158.2	1.4000	1.46	1.000	24.96	2.05	37.52	74.46
340	215.6	159.7	1.4000	1.46	1.000	25.07	2.06	37.68	74.68
350	225.8	149.5	1.4000	1.46	1.000	24.34	2.02	36.55	73.16

AMSL= 375.3 M

WUBU CP, South Bend, IN - Proposed
Latitude: 41-36-58.80 N / Longitude: 086-11-44 W
ERP: 1.40 kW / Channel: 292 / Freq: 106.3 MHz
AMSL Height: 375.3 m / Elevation: 264.48 m
60 dBu: 301,039 persons in 1,241 sq. km.

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

