

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

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 12-22-15
86 11 44.0 W.	Current Spacings to 3rd Adj.	SEARCH 12-22-15
----- Channel 292 - 106.3 MHz -----		

Call Lat.	Channel Lng.	Location Ant	Power	Azi HAAT	Dist	FCC	Margin
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
41 12 49.0	85 12 04.0	ZCX	5.600 kW	104 M		91.5	+ 2.9
Fort Wayne Catholic Radio BLH20040108AML							
WSRB	LIC-Z 292A	Lansing	IL	268.3	112.69	114.5	-1.8
41 34 44.0	87 32 47.0	ZCX	4.100 kW	121 M		91.5	+21.2
Dontron, Inc. BLH20031219AAA							
WVFM	LIC-N 293B	Kalamazoo	MI	31.3	112.20	112.5	-0.30
42 28 35.0	85 29 05.0	NCX	33.000 kW	183 M		95.5	+16.7
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							
AL4309	RSV-A 291B	Charlotte	MI	55.9	156.15	112.5	43.7
42 23 28.0	84 37 22.0		50.000 kW	150 M			
RM11134							
WJXQ	LIC 291B	Charlotte	MI	55.9	156.16	112.5	43.7
42 23 30.0	84 37 23.0	C	49.000 kW	151 M			
Midwest Communications, In BMLH20150427AAU							

Reference station has protected zone issue: Canada- AM tower
 RSV-R = reserved - needs protection, RSV-A = allocation.
 All separation margins include rounding

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EXHIBIT B1

REFERENCE CH# 292A - 106.3 MHz, Pwr= 2.2 kW DA, HAAT= 100.0 M, COR= 340.5 M DISPLAY DATES
 41 36 58.8 N. Average Protected F(50-50)= 22.6 km DATA 12-22-15
 86 11 44.0 W. 73.215 Directional SEARCH 12-22-15

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*
292A South Bend	WUBU!	LIC IN	ZCX	324.8 144.8	8.17 BLH20090331ATJ	41 40 35.0 86 15 08.0	3.000 92	65.6 323	19.1 Partnership Radio, Llc	-81.9	-85.8
292A Columbia City	WRDF	LIC IN	ZCX	118.0 298.7	94.23 BLH20040108AML	41 12 49.0 85 12 04.0	5.600 104	84.4 360	26.9 Fort Wayne Catholic Radio	0.4	36.0
293B Kalamazoo	WVFM	LIC MI	NCX	31.3 211.8	112.19 BLH20060726ANY	42 28 35.0 85 29 05.0	33.000 183	77.2 452	64.7 Midwest Communications, In	12.8	0.8
239A Nappanee	WRDI«	LIC IN	CX	151.6 331.6	21.08 BLH20091014ABT	41 26 58.0 86 04 30.0	2.500 155	65.6 408	19.1 St. Joseph Catholic Radio	9.5R	11.6M
292A Lansing	WSRB	LIC IL	ZCX	268.3 87.4	112.38 BLH20031219AAA	41 34 44.0 87 32 47.0	4.100 121	75.4 309	24.9 Dontron, Inc.	13.5	14.6
291B Charlotte	AL4309«	RSV-A MI		55.9 237.0	156.15 RM11134	42 23 28.0 84 37 22.0	50.000 150	77.3 438	64.3	112.5R	43.7M
291B Charlotte	WJXQ«	LIC MI	C	55.9 237.0	156.16 BMLH20150427AAU	42 23 30.0 84 37 23.0	49.000 151	77.5 442	64.6 Midwest Communications, In	112.5R	43.7M

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- AM tower

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

CONTOUR CLEARANCE - \$73.215



GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

WUBU - South Bend, IN - Proposed

Latitude: 41-36-58.80 N - Longitude: 086-11-44 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 2.20 kW - AMSL Height: 340.5 m

WRDF - Columbia City, IN - BLH20040108AML

Latitude: 41-12-49 N - Longitude: 085-12-04 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 5.60 kW - AMSL Height: 360.3 m

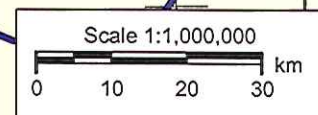
WSRB - Lansing, IL - BLH20031219AAA

Latitude: 41-34-44 N - Longitude: 087-32-47 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 4.10 kW - AMSL Height: 309.0 m

WVFM - Kalamazoo, MI - BLH20060726ANY

Latitude: 42-28-35 N - Longitude: 085-29-05 W
Channel: 293 - Frequency: 106.5 MHz
ERP: 33.00 kW - AMSL Height: 452.0 m

EXHIBIT B2
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- 60 dBu - FCC 50/50 (WUBU, WRDF, WSRB)
- 40 dBu - FCC 50/10 (WUBU, WRDF, WSRB)

CONTOUR CLEARANCE - §73.215 WUBU vs WRDF Detail

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

WUBU - South Bend, IN - Proposed

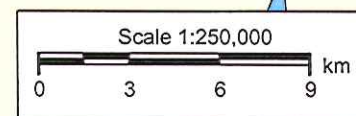
Latitude: 41-36-58.80 N - Longitude: 086-11-44 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 2.20 kW - AMSL Height: 340.5 m

WRDF - Columbia City, IN - BLH20040108AML

Latitude: 41-12-49 N - Longitude: 085-12-04 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 5.60 kW - AMSL Height: 360.3 m

WUBU

EXHIBIT B3
MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015



V-Soft Communications LLC ©

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

CONTOUR CLEARANCE - §73.215
WUBU vs WVFM Detail

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

WUBU - South Bend, IN - Proposed

Latitude: 41-36-58.80 N - Longitude: 086-11-44 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 2.20 kW - AMSL Height: 340.5 m

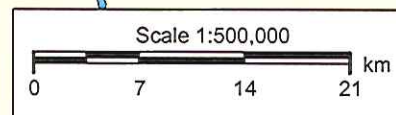
WVFM - Kalamazoo, MI - BLH20060726ANY

Latitude: 42-28-35 N - Longitude: 085-29-05 W
Channel: 293 - Frequency: 106.5 MHz
ERP: 33.00 kW - AMSL Height: 452.0 m

42-00-00 N

EXHIBIT B4
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WUBU



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EXHIBIT B5

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
060.0	000.4819	0115.6	016.5	308.0	005.6000	0093.3	086.6	39.40	
061.0	000.4615	0115.4	016.3	307.8	005.6000	0093.3	086.5	39.45	
062.0	000.4435	0114.7	016.1	307.6	005.6000	0093.3	086.3	39.49	
063.0	000.4240	0113.6	015.8	307.3	005.6000	0093.3	086.2	39.52	
064.0	000.4068	0112.5	015.5	307.1	005.6000	0093.3	086.1	39.55	
065.0	000.3881	0111.4	015.2	306.8	005.6000	0093.2	085.9	39.58	
066.0	000.3698	0110.4	014.9	306.6	005.6000	0093.2	085.9	39.60	
067.0	000.3538	0109.4	014.7	306.4	005.6000	0093.2	085.8	39.63	
068.0	000.3363	0108.6	014.4	306.1	005.6000	0093.2	085.7	39.65	
069.0	000.3210	0108.1	014.2	305.9	005.6000	0093.2	085.6	39.68	
070.0	000.3044	0107.9	014.0	305.7	005.6000	0093.2	085.5	39.70	
071.0	000.2915	0107.7	013.9	305.5	005.6000	0093.1	085.4	39.73	
072.0	000.2804	0107.6	013.7	305.4	005.6000	0093.1	085.3	39.76	
073.0	000.2680	0107.4	013.6	305.2	005.6000	0093.1	085.2	39.78	
074.0	000.2573	0107.2	013.4	305.0	005.6000	0093.1	085.1	39.80	
075.0	000.2454	0107.0	013.2	304.8	005.6000	0093.1	085.0	39.82	
076.0	000.2338	0106.9	013.1	304.6	005.6000	0093.1	085.0	39.84	
077.0	000.2239	0106.6	012.9	304.4	005.6000	0093.0	084.9	39.85	
078.0	000.2128	0105.9	012.7	304.2	005.6000	0093.0	084.9	39.86	
079.0	000.2033	0105.1	012.5	304.0	005.6000	0093.0	084.9	39.86	
080.0	000.1928	0104.1	012.3	303.8	005.6000	0093.0	084.9	39.86	
081.0	000.1850	0103.1	012.1	303.6	005.6000	0093.0	084.9	39.86	
082.0	000.1774	0102.3	012.0	303.5	005.6000	0093.0	084.8	39.87	
083.0	000.1700	0101.7	011.8	303.3	005.6000	0093.0	084.8	39.87	
084.0	000.1628	0101.4	011.7	303.1	005.6000	0093.0	084.8	39.88	
085.0	000.1557	0101.0	011.5	302.9	005.6000	0093.0	084.8	39.88	
086.0	000.1476	0100.6	011.4	302.8	005.6000	0093.0	084.8	39.88	
087.0	000.1408	0099.9	011.2	302.6	005.6000	0093.0	084.8	39.87	
088.0	000.1342	0099.1	011.0	302.4	005.6000	0093.0	084.9	39.86	
089.0	000.1278	0098.4	010.9	302.3	005.6000	0093.0	084.9	39.85	
090.0	000.1215	0097.9	010.7	302.1	005.6000	0093.0	084.9	39.85	
091.0	000.1184	0098.0	010.6	302.0	005.6000	0093.0	084.9	39.86	
092.0	000.1154	0098.1	010.6	301.8	005.6000	0093.0	084.9	39.87	
093.0	000.1124	0098.2	010.5	301.7	005.6000	0093.0	084.8	39.88	
094.0	000.1094	0098.0	010.4	301.6	005.6000	0093.0	084.8	39.88	
095.0	000.1065	0097.4	010.3	301.4	005.6000	0093.0	084.8	39.88	
096.0	000.1046	0096.5	010.3	301.3	005.6000	0093.0	084.8	39.88	
097.0	000.1017	0095.7	010.1	301.2	005.6000	0093.0	084.8	39.87	
098.0	000.0989	0095.2	010.0	301.0	005.6000	0093.0	084.9	39.86	
099.0	000.0961	0095.0	010.0	300.9	005.6000	0093.0	084.9	39.86	
100.0	000.0934	0095.1	009.9	300.8	005.6000	0092.9	084.9	39.86	

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EXHIBIT B5 (continued)

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
101.0	000.0925	0095.3	009.9	300.7	005.6000	0092.9	084.8	39.87	
102.0	000.0907	0095.4	009.8	300.5	005.6000	0092.9	084.8	39.87	
103.0	000.0898	0095.2	009.8	300.4	005.6000	0092.9	084.8	39.88	
104.0	000.0880	0094.9	009.7	300.3	005.6000	0092.9	084.8	39.88	
105.0	000.0871	0094.4	009.7	300.2	005.6000	0092.9	084.8	39.87	
106.0	000.0862	0093.8	009.6	300.1	005.6000	0092.9	084.8	39.87	
107.0	000.0845	0093.2	009.6	299.9	005.6000	0092.9	084.9	39.86	
108.0	000.0837	0092.7	009.5	299.8	005.6000	0092.9	084.9	39.85	
109.0	000.0819	0092.4	009.5	299.7	005.6000	0092.9	084.9	39.85	
110.0	000.0811	0092.4	009.4	299.6	005.6000	0092.9	084.9	39.85	
111.0	000.0811	0092.4	009.4	299.5	005.6000	0092.9	084.9	39.85	
112.0	000.0803	0092.2	009.4	299.4	005.6000	0092.9	084.9	39.85	
113.0	000.0803	0092.2	009.4	299.3	005.6000	0092.9	084.9	39.85	
114.0	000.0794	0092.3	009.4	299.1	005.6000	0092.9	084.9	39.85	
115.0	000.0794	0092.6	009.4	299.0	005.6000	0092.9	084.9	39.86	
116.0	000.0786	0092.9	009.4	298.9	005.6000	0092.9	084.9	39.86	
117.0	000.0786	0093.0	009.4	298.8	005.6000	0093.0	084.9	39.87	
118.0	000.0778	0092.8	009.4	298.7	005.6000	0093.0	084.9	39.86	
119.0	000.0778	0092.6	009.3	298.6	005.6000	0093.0	084.9	39.86	
120.0	000.0769	0092.3	009.3	298.5	005.6000	0093.1	084.9	39.85	
121.0	000.0778	0092.0	009.3	298.4	005.6000	0093.1	084.9	39.85	
122.0	000.0786	0091.9	009.3	298.3	005.6000	0093.1	084.9	39.85	
123.0	000.0803	0091.9	009.4	298.2	005.6000	0093.2	084.9	39.87	
124.0	000.0811	0091.9	009.4	298.0	005.6000	0093.2	084.9	39.87	
125.0	000.0819	0091.7	009.4	297.9	005.6000	0093.2	084.9	39.87	
126.0	000.0828	0091.5	009.4	297.8	005.6000	0093.3	084.9	39.87	
127.0	000.0837	0091.3	009.4	297.7	005.6000	0093.3	084.9	39.86	
128.0	000.0854	0091.1	009.5	297.6	005.6000	0093.3	084.9	39.87	
129.0	000.0862	0090.8	009.5	297.5	005.6000	0093.4	084.9	39.86	
130.0	000.0871	0090.4	009.5	297.4	005.6000	0093.4	085.0	39.86	
131.0	000.0898	0089.8	009.5	297.3	005.6000	0093.4	085.0	39.86	
132.0	000.0925	0089.3	009.6	297.1	005.6000	0093.5	085.0	39.86	
133.0	000.0961	0088.9	009.6	297.0	005.6000	0093.5	084.9	39.87	
134.0	000.0989	0088.6	009.7	296.9	005.6000	0093.6	084.9	39.87	
135.0	000.1017	0088.2	009.8	296.8	005.6000	0093.6	085.0	39.87	
136.0	000.1046	0087.9	009.8	296.7	005.6000	0093.6	085.0	39.87	
137.0	000.1075	0087.6	009.8	296.5	005.6000	0093.6	085.0	39.86	
138.0	000.1114	0087.2	009.9	296.4	005.6000	0093.6	085.0	39.86	
139.0	000.1144	0087.0	010.0	296.3	005.6000	0093.7	085.0	39.86	
140.0	000.1174	0086.8	010.0	296.2	005.6000	0093.7	085.0	39.85	

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EXHIBIT B5 (continued)

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
141.0	000.1225	0086.6	010.1	296.0	005.6000	0093.7	085.0	39.86	
142.0	000.1278	0086.3	010.2	295.9	005.6000	0093.7	085.0	39.86	
143.0	000.1331	0086.0	010.3	295.8	005.6000	0093.7	085.0	39.86	
144.0	000.1386	0085.9	010.4	295.6	005.6000	0093.7	085.0	39.86	
145.0	000.1453	0086.1	010.5	295.5	005.6000	0093.7	085.0	39.86	
146.0	000.1510	0086.5	010.6	295.3	005.6000	0093.7	085.0	39.87	
147.0	000.1568	0087.0	010.8	295.2	005.6000	0093.7	085.0	39.87	
148.0	000.1628	0087.7	010.9	295.0	005.6000	0093.7	085.0	39.87	
149.0	000.1688	0088.6	011.1	294.9	005.6000	0093.7	084.9	39.87	
150.0	000.1750	0089.5	011.2	294.7	005.6000	0093.7	084.9	39.88	
151.0	000.1837	0089.9	011.4	294.5	005.6000	0093.7	084.9	39.88	
152.0	000.1928	0090.1	011.5	294.4	005.6000	0093.7	084.9	39.88	
153.0	000.2033	0090.3	011.7	294.2	005.6000	0093.7	084.9	39.87	
154.0	000.2128	0090.3	011.8	294.0	005.6000	0093.7	085.0	39.87	
155.0	000.2225	0090.2	011.9	293.9	005.6000	0093.7	085.0	39.85	
156.0	000.2324	0089.8	012.0	293.7	005.6000	0093.7	085.1	39.84	
157.0	000.2425	0089.7	012.1	293.6	005.6000	0093.7	085.2	39.82	
158.0	000.2543	0089.8	012.3	293.4	005.6000	0093.7	085.2	39.81	
159.0	000.2649	0089.8	012.4	293.2	005.6000	0093.7	085.3	39.79	
160.0	000.2757	0089.5	012.5	293.1	005.6000	0093.7	085.4	39.76	
161.0	000.2899	0089.5	012.6	292.9	005.6000	0093.7	085.4	39.75	
162.0	000.3044	0089.7	012.8	292.7	005.6000	0093.8	085.5	39.73	
163.0	000.3194	0089.8	013.0	292.6	005.6000	0093.8	085.6	39.71	
164.0	000.3346	0089.6	013.1	292.4	005.6000	0093.8	085.7	39.69	
165.0	000.3520	0089.4	013.2	292.2	005.6000	0093.8	085.7	39.66	
166.0	000.3680	0089.2	013.4	292.1	005.6000	0093.8	085.9	39.63	
167.0	000.3844	0089.2	013.5	291.9	005.6000	0093.9	086.0	39.60	
168.0	000.4011	0089.5	013.7	291.7	005.6000	0093.9	086.1	39.57	
169.0	000.4182	0089.8	013.8	291.5	005.6000	0093.9	086.2	39.54	
170.0	000.4357	0090.0	014.0	291.4	005.6000	0093.9	086.3	39.51	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
60 dBu

Interfering
40 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
280.0	005.6000	0095.2	027.2	125.3	000.0822	0091.6	069.0	25.90	
281.0	005.6000	0094.6	027.1	124.9	000.0819	0091.7	068.9	25.92	
282.0	005.6000	0094.2	027.1	124.5	000.0816	0091.8	068.7	25.95	
283.0	005.6000	0094.0	027.1	124.2	000.0812	0091.9	068.6	25.99	
284.0	005.6000	0093.9	027.0	123.8	000.0809	0091.9	068.4	26.02	
285.0	005.6000	0093.8	027.0	123.4	000.0806	0091.9	068.3	26.04	
286.0	005.6000	0093.7	027.0	123.0	000.0803	0091.9	068.1	26.07	
287.0	005.6000	0093.7	027.0	122.7	000.0797	0091.9	068.0	26.07	
288.0	005.6000	0093.7	027.0	122.3	000.0791	0091.9	067.9	26.08	
289.0	005.6000	0093.8	027.0	121.9	000.0785	0091.9	067.7	26.08	
290.0	005.6000	0093.8	027.0	121.5	000.0782	0092.0	067.6	26.10	
291.0	005.6000	0093.9	027.0	121.1	000.0779	0092.0	067.5	26.11	
292.0	005.6000	0093.8	027.0	120.7	000.0775	0092.1	067.5	26.12	
293.0	005.6000	0093.7	027.0	120.3	000.0772	0092.2	067.4	26.13	
294.0	005.6000	0093.7	027.0	119.9	000.0770	0092.3	067.3	26.14	
295.0	005.6000	0093.7	027.0	119.5	000.0773	0092.5	067.3	26.18	
296.0	005.6000	0093.7	027.0	119.1	000.0777	0092.6	067.3	26.22	
297.0	005.6000	0093.5	027.0	118.7	000.0778	0092.7	067.3	26.23	
298.0	005.6000	0093.2	027.0	118.3	000.0778	0092.8	067.3	26.23	
299.0	005.6000	0092.9	026.9	117.9	000.0778	0092.9	067.3	26.22	
300.0	005.6000	0092.9	026.9	117.5	000.0782	0092.9	067.3	26.24	
301.0	005.6000	0093.0	026.9	117.1	000.0785	0093.0	067.3	26.26	
302.0	005.6000	0093.0	026.9	116.7	000.0786	0093.0	067.4	26.26	
303.0	005.6000	0093.0	026.9	116.3	000.0786	0092.9	067.4	26.24	
304.0	005.6000	0093.0	026.9	115.9	000.0786	0092.9	067.5	26.23	
305.0	005.6000	0093.1	026.9	115.5	000.0790	0092.8	067.5	26.22	
306.0	005.6000	0093.2	026.9	115.1	000.0793	0092.7	067.6	26.21	
307.0	005.6000	0093.2	027.0	114.7	000.0794	0092.5	067.7	26.19	
308.0	005.6000	0093.3	027.0	114.4	000.0794	0092.4	067.8	26.15	
309.0	005.6000	0093.6	027.0	114.0	000.0795	0092.3	067.8	26.13	
310.0	005.6000	0093.8	027.0	113.6	000.0798	0092.2	067.9	26.11	
311.0	005.6000	0093.9	027.1	113.2	000.0801	0092.2	068.0	26.10	
312.0	005.6000	0094.0	027.1	112.8	000.0803	0092.2	068.2	26.06	
313.0	005.6000	0094.0	027.1	112.4	000.0803	0092.2	068.3	26.02	
314.0	005.6000	0093.9	027.0	112.1	000.0803	0092.2	068.5	25.97	
315.0	005.6000	0093.8	027.0	111.7	000.0805	0092.3	068.7	25.93	
316.0	005.6000	0093.7	027.0	111.3	000.0808	0092.3	068.9	25.89	
317.0	005.6000	0093.6	027.0	111.0	000.0811	0092.4	069.1	25.85	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B7

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
210.0	002.2000	0082.6	020.5	097.2	002.0453	0129.0	103.1	32.26	
211.0	002.2000	0082.0	020.4	097.1	002.0449	0129.0	102.8	32.33	
212.0	002.2000	0081.6	020.4	096.9	002.0446	0129.0	102.5	32.40	
213.0	002.2000	0081.3	020.3	096.8	002.0442	0129.0	102.2	32.47	
214.0	002.2000	0081.3	020.3	096.8	002.0439	0129.0	101.9	32.55	
215.0	002.2000	0081.3	020.3	096.7	002.0436	0129.0	101.6	32.62	
216.0	002.2000	0081.4	020.3	096.6	002.0433	0129.0	101.2	32.70	
217.0	002.2000	0081.4	020.3	096.5	002.0429	0129.0	100.9	32.77	
218.0	002.2000	0081.4	020.3	096.4	002.0426	0129.0	100.6	32.85	
219.0	002.2000	0081.4	020.3	096.3	002.0422	0129.0	100.3	32.92	
220.0	002.2000	0081.3	020.3	096.2	002.0418	0129.0	100.0	33.00	
221.0	002.2000	0081.2	020.3	096.0	002.0414	0129.0	099.7	33.07	
222.0	002.2000	0081.0	020.3	095.9	002.0410	0129.0	099.5	33.13	
223.0	002.2000	0080.8	020.3	095.8	002.0405	0129.0	099.2	33.20	
224.0	002.2000	0080.7	020.3	095.7	002.0401	0129.0	098.9	33.27	
225.0	002.2000	0080.8	020.3	095.5	002.0397	0129.0	098.6	33.34	
226.0	002.2000	0081.1	020.3	095.4	002.0393	0129.0	098.3	33.42	
227.0	002.2000	0081.8	020.4	095.3	002.0389	0129.0	098.0	33.50	
228.0	002.2000	0082.8	020.5	095.2	002.0387	0129.0	097.7	33.59	
229.0	002.2000	0083.7	020.6	095.2	002.0383	0129.0	097.3	33.68	
230.0	002.2000	0084.2	020.7	095.0	002.0379	0129.0	097.0	33.76	
231.0	002.2000	0084.4	020.7	094.9	002.0374	0129.0	096.7	33.83	
232.0	002.2000	0084.4	020.7	094.7	002.0369	0129.0	096.5	33.89	
233.0	002.2000	0084.5	020.7	094.6	002.0364	0129.0	096.2	33.96	
234.0	002.2000	0084.5	020.7	094.4	002.0358	0129.0	096.0	34.02	
235.0	002.2000	0084.6	020.7	094.3	002.0353	0129.0	095.7	34.08	
236.0	002.2000	0084.8	020.8	094.1	002.0347	0129.0	095.5	34.15	
237.0	002.2000	0085.1	020.8	094.0	002.0342	0129.0	095.2	34.22	
238.0	002.2000	0085.4	020.8	093.8	002.0336	0129.0	095.0	34.28	
239.0	002.2000	0085.6	020.9	093.6	002.0330	0129.0	094.7	34.35	
240.0	002.2000	0085.9	020.9	093.5	002.0324	0129.0	094.5	34.41	
241.0	002.2000	0086.2	020.9	093.3	002.0318	0129.0	094.3	34.47	
242.0	002.2000	0086.4	021.0	093.1	002.0312	0129.0	094.1	34.53	
243.0	002.2000	0086.4	021.0	092.9	002.0306	0129.0	093.9	34.58	
244.0	002.2000	0086.3	021.0	092.7	002.0299	0129.0	093.7	34.62	
245.0	002.2000	0086.4	021.0	092.5	002.0292	0129.0	093.5	34.67	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B7 (continued)

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
246.0	002.2000	0087.1	021.1	092.4	002.0286	0129.0	093.3	34.74	
247.0	002.2000	0088.2	021.2	092.2	002.0280	0129.0	093.0	34.82	
248.0	002.2000	0089.7	021.4	092.0	002.0275	0129.0	092.7	34.90	
249.0	002.2000	0091.0	021.5	091.9	002.0269	0129.0	092.4	34.98	
250.0	002.2000	0092.4	021.7	091.7	002.0263	0129.0	092.0	35.07	
251.0	002.2000	0093.9	021.9	091.5	002.0257	0129.0	091.7	35.15	
252.0	002.2000	0095.4	022.0	091.3	002.0250	0129.0	091.4	35.23	
253.0	002.2000	0096.7	022.2	091.1	002.0244	0129.0	091.2	35.31	
254.0	002.2000	0097.9	022.3	090.9	002.0236	0129.0	090.9	35.37	
255.0	002.2000	0099.0	022.4	090.7	002.0229	0129.0	090.7	35.44	
256.0	002.2000	0099.9	022.5	090.5	002.0221	0129.0	090.5	35.49	
257.0	002.2000	0100.7	022.6	090.3	002.0214	0129.0	090.3	35.54	
258.0	002.2000	0101.6	022.7	090.0	002.0206	0129.0	090.1	35.59	
259.0	002.2000	0102.5	022.8	089.8	002.0232	0129.0	089.9	35.65	
260.0	002.2000	0103.2	022.9	089.5	002.0262	0129.0	089.8	35.70	
261.0	002.2000	0103.9	023.0	089.3	002.0293	0129.0	089.6	35.74	
262.0	002.2000	0104.5	023.0	089.1	002.0325	0129.0	089.5	35.79	
263.0	002.2000	0105.1	023.1	088.8	002.0357	0129.0	089.4	35.83	
264.0	002.2000	0105.8	023.2	088.6	002.0389	0129.0	089.3	35.86	
265.0	002.2000	0106.5	023.3	088.3	002.0421	0129.0	089.2	35.90	
266.0	002.2000	0107.0	023.3	088.0	002.0454	0129.0	089.1	35.93	
267.0	002.2000	0107.5	023.4	087.8	002.0488	0129.0	089.0	35.96	
268.0	002.2000	0107.9	023.4	087.5	002.0521	0129.0	089.0	35.98	
269.0	002.2000	0108.4	023.4	087.3	002.0555	0129.0	088.9	36.00	
270.0	002.2000	0108.8	023.5	087.0	002.0588	0129.0	088.9	36.01	
271.0	002.2000	0109.1	023.5	086.7	002.0622	0129.0	088.9	36.03	
272.0	002.2000	0109.5	023.6	086.5	002.0656	0129.0	088.9	36.03	
273.0	002.2000	0109.8	023.6	086.2	002.0690	0129.0	088.9	36.04	
274.0	002.2000	0110.2	023.6	085.9	002.0725	0129.0	088.9	36.04	
275.0	002.2000	0110.5	023.7	085.7	002.0759	0129.0	088.9	36.04	
276.0	002.2000	0110.9	023.7	085.4	002.0793	0129.0	089.0	36.04	
277.0	002.2000	0111.3	023.7	085.1	002.0827	0129.0	089.0	36.04	
278.0	002.2000	0111.7	023.8	084.9	002.0861	0129.0	089.0	36.03	
279.0	002.2000	0112.1	023.8	084.6	002.0896	0129.0	089.1	36.02	
280.0	002.2000	0112.4	023.8	084.3	002.0930	0129.0	089.2	36.01	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B7 (continued)

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
281.0	002.2000	0112.6	023.9	084.1	002.0963	0129.0	089.3	35.99	
282.0	002.2000	0112.8	023.9	083.8	002.0997	0129.0	089.4	35.97	
283.0	002.2000	0112.9	023.9	083.6	002.1030	0129.0	089.5	35.94	
284.0	002.2000	0112.9	023.9	083.3	002.1063	0129.0	089.6	35.91	
285.0	002.2000	0113.1	023.9	083.0	002.1095	0129.0	089.8	35.88	
286.0	002.2000	0113.3	023.9	082.8	002.1128	0129.0	089.9	35.85	
287.0	002.2000	0113.5	023.9	082.5	002.1160	0129.0	090.0	35.82	
288.0	002.2000	0113.6	023.9	082.3	002.1192	0129.0	090.2	35.78	
289.0	002.2000	0113.6	023.9	082.1	002.1223	0129.0	090.4	35.73	
290.0	002.2000	0113.5	023.9	081.8	002.1254	0129.0	090.6	35.69	
291.0	002.2000	0113.7	024.0	081.6	002.1284	0129.0	090.8	35.64	
292.0	002.2000	0113.9	024.0	081.3	002.1315	0129.0	090.9	35.60	
293.0	002.2000	0114.2	024.0	081.1	002.1346	0129.0	091.1	35.55	
294.0	002.2000	0114.3	024.0	080.9	002.1375	0129.0	091.3	35.50	
295.0	002.2000	0114.4	024.0	080.7	002.1405	0129.0	091.6	35.44	
296.0	002.2000	0114.4	024.0	080.4	002.1433	0129.0	091.8	35.38	
297.0	002.2000	0114.3	024.0	080.2	002.1461	0129.0	092.0	35.32	
298.0	002.2000	0114.2	024.0	080.0	002.1487	0129.0	092.3	35.25	
299.0	002.2000	0114.1	024.0	079.8	002.1514	0129.0	092.6	35.19	
300.0	002.2000	0114.0	024.0	079.6	002.1540	0129.0	092.8	35.12	
301.0	002.2000	0114.0	024.0	079.4	002.1566	0129.0	093.1	35.05	
302.0	002.2000	0114.0	024.0	079.2	002.1591	0129.0	093.4	34.98	
303.0	002.2000	0113.9	024.0	079.1	002.1615	0129.0	093.7	34.90	
304.0	002.2000	0113.7	024.0	078.9	002.1638	0129.0	094.0	34.82	
305.0	002.2000	0113.4	023.9	078.7	002.1660	0129.0	094.3	34.74	
306.0	002.2000	0113.3	023.9	078.5	002.1683	0129.0	094.6	34.67	
307.0	002.2000	0113.5	023.9	078.4	002.1707	0129.0	094.9	34.59	
308.0	002.2000	0114.0	024.0	078.2	002.1731	0129.0	095.2	34.52	
309.0	002.2000	0114.5	024.0	078.0	002.1755	0129.0	095.5	34.45	
310.0	002.2000	0115.0	024.1	077.8	002.1779	0129.0	095.7	34.38	
311.0	002.2000	0115.5	024.1	077.6	002.1803	0129.0	096.1	34.30	
312.0	002.2000	0115.7	024.1	077.5	002.1824	0129.0	096.4	34.22	
313.0	002.2000	0115.8	024.2	077.3	002.1843	0129.0	096.7	34.13	
314.0	002.2000	0115.8	024.2	077.2	002.1862	0129.0	097.1	34.05	
315.0	002.2000	0116.0	024.2	077.0	002.1881	0129.0	097.4	33.96	
316.0	002.2000	0116.4	024.2	076.9	002.1901	0129.0	097.7	33.88	
317.0	002.2000	0116.9	024.3	076.7	002.1921	0129.0	098.1	33.79	
318.0	002.2000	0117.4	024.3	076.6	002.1940	0129.0	098.4	33.71	
319.0	002.2000	0118.0	024.3	076.4	002.1959	0129.0	098.8	33.63	
320.0	002.2000	0118.5	024.4	076.3	002.1978	0129.0	099.1	33.54	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
60 dBu

Interfering
40 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
030.0	002.5653	0129.0	026.1	280.9	002.2000	0112.6	100.8	32.53	
031.0	002.5504	0129.0	026.1	280.8	002.2000	0112.6	100.3	32.62	
032.0	002.5355	0129.0	026.1	280.7	002.2000	0112.6	099.9	32.72	
033.0	002.5207	0129.0	026.0	280.6	002.2000	0112.6	099.5	32.82	
034.0	002.5060	0129.0	026.0	280.5	002.2000	0112.5	099.1	32.91	
035.0	002.4912	0129.0	026.0	280.4	002.2000	0112.5	098.7	33.01	
036.0	002.4766	0129.0	025.9	280.2	002.2000	0112.5	098.3	33.10	
037.0	002.4619	0129.0	025.9	280.1	002.2000	0112.4	097.9	33.20	
038.0	002.4473	0129.0	025.9	279.9	002.2000	0112.4	097.6	33.29	
039.0	002.4328	0129.0	025.8	279.8	002.2000	0112.3	097.2	33.38	
040.0	002.4183	0129.0	025.8	279.6	002.2000	0112.3	096.8	33.47	
041.0	002.4132	0129.0	025.8	279.5	002.2000	0112.2	096.4	33.57	
042.0	002.4082	0129.0	025.8	279.3	002.2000	0112.2	096.1	33.66	
043.0	002.4032	0129.0	025.8	279.2	002.2000	0112.1	095.7	33.75	
044.0	002.3982	0129.0	025.7	279.0	002.2000	0112.1	095.4	33.84	
045.0	002.3932	0129.0	025.7	278.9	002.2000	0112.0	095.0	33.93	
046.0	002.3881	0129.0	025.7	278.7	002.2000	0111.9	094.6	34.02	
047.0	002.3831	0129.0	025.7	278.5	002.2000	0111.9	094.3	34.10	
048.0	002.3781	0129.0	025.7	278.3	002.2000	0111.8	094.0	34.19	
049.0	002.3731	0129.0	025.7	278.1	002.2000	0111.7	093.6	34.27	
050.0	002.3682	0129.0	025.7	278.0	002.2000	0111.6	093.3	34.35	
051.0	002.3632	0129.0	025.7	277.8	002.2000	0111.6	093.0	34.43	
052.0	002.3582	0129.0	025.6	277.6	002.2000	0111.5	092.7	34.51	
053.0	002.3532	0129.0	025.6	277.4	002.2000	0111.4	092.4	34.59	
054.0	002.3483	0129.0	025.6	277.1	002.2000	0111.3	092.1	34.67	
055.0	002.3433	0129.0	025.6	276.9	002.2000	0111.2	091.8	34.74	
056.0	002.3383	0129.0	025.6	276.7	002.2000	0111.2	091.5	34.81	
057.0	002.3334	0129.0	025.6	276.5	002.2000	0111.1	091.3	34.88	
058.0	002.3284	0129.0	025.6	276.3	002.2000	0111.0	091.0	34.95	
059.0	002.3235	0129.0	025.6	276.0	002.2000	0110.9	090.7	35.02	
060.0	002.3186	0129.0	025.5	275.8	002.2000	0110.8	090.5	35.08	
061.0	002.3149	0129.0	025.5	275.6	002.2000	0110.7	090.2	35.14	
062.0	002.3112	0129.0	025.5	275.3	002.2000	0110.6	090.0	35.20	
063.0	002.3075	0129.0	025.5	275.1	002.2000	0110.5	089.8	35.26	
064.0	002.3038	0129.0	025.5	274.8	002.2000	0110.4	089.6	35.32	
065.0	002.3001	0129.0	025.5	274.6	002.2000	0110.4	089.3	35.37	
066.0	002.2964	0129.0	025.5	274.3	002.2000	0110.3	089.1	35.42	
067.0	002.2927	0129.0	025.5	274.1	002.2000	0110.2	089.0	35.47	
068.0	002.2891	0129.0	025.5	273.8	002.2000	0110.1	088.8	35.52	
069.0	002.2854	0129.0	025.5	273.5	002.2000	0110.0	088.6	35.57	
070.0	002.2817	0129.0	025.5	273.3	002.2000	0109.9	088.4	35.61	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B8 (continued)

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
60 dBu

Interfering
40 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
071.0	002.2683	0129.0	025.4	273.0	002.2000	0109.8	088.3	35.64	
072.0	002.2549	0129.0	025.4	272.7	002.2000	0109.7	088.2	35.67	
073.0	002.2415	0129.0	025.4	272.4	002.2000	0109.6	088.1	35.70	
074.0	002.2282	0129.0	025.3	272.2	002.2000	0109.6	088.0	35.72	
075.0	002.2149	0129.0	025.3	271.9	002.2000	0109.5	087.9	35.74	
076.0	002.2017	0129.0	025.3	271.6	002.2000	0109.4	087.8	35.76	
077.0	002.1885	0129.0	025.2	271.3	002.2000	0109.3	087.7	35.78	
078.0	002.1753	0129.0	025.2	271.0	002.2000	0109.2	087.6	35.79	
079.0	002.1622	0129.0	025.2	270.7	002.2000	0109.1	087.6	35.80	
080.0	002.1491	0129.0	025.1	270.5	002.2000	0109.0	087.5	35.81	
081.0	002.1361	0129.0	025.1	270.2	002.2000	0108.8	087.5	35.81	
082.0	002.1231	0129.0	025.1	269.9	002.2000	0108.7	087.5	35.82	
083.0	002.1101	0129.0	025.0	269.6	002.2000	0108.6	087.5	35.81	
084.0	002.0972	0129.0	025.0	269.3	002.2000	0108.5	087.5	35.81	
085.0	002.0843	0129.0	025.0	269.0	002.2000	0108.4	087.5	35.80	
086.0	002.0715	0129.0	024.9	268.7	002.2000	0108.2	087.5	35.79	
087.0	002.0587	0129.0	024.9	268.4	002.2000	0108.1	087.5	35.78	
088.0	002.0459	0129.0	024.8	268.2	002.2000	0108.0	087.5	35.77	
089.0	002.0332	0129.0	024.8	267.9	002.2000	0107.9	087.6	35.75	
090.0	002.0205	0129.0	024.8	267.6	002.2000	0107.8	087.6	35.73	
091.0	002.0240	0129.0	024.8	267.3	002.2000	0107.6	087.7	35.72	
092.0	002.0274	0129.0	024.8	267.0	002.2000	0107.5	087.7	35.70	
093.0	002.0309	0129.0	024.8	266.8	002.2000	0107.4	087.7	35.69	
094.0	002.0343	0129.0	024.8	266.5	002.2000	0107.3	087.8	35.67	
095.0	002.0378	0129.0	024.8	266.2	002.2000	0107.1	087.8	35.64	
096.0	002.0413	0129.0	024.8	265.9	002.2000	0107.0	087.9	35.62	
097.0	002.0447	0129.0	024.8	265.6	002.2000	0106.8	088.0	35.59	
098.0	002.0482	0129.0	024.9	265.4	002.2000	0106.7	088.1	35.56	
099.0	002.0517	0129.0	024.9	265.1	002.2000	0106.5	088.2	35.53	
100.0	002.0552	0129.0	024.9	264.8	002.2000	0106.3	088.3	35.49	
101.0	002.0820	0129.0	024.9	264.5	002.2000	0106.1	088.3	35.46	
102.0	002.1089	0128.9	025.0	264.2	002.2000	0105.9	088.4	35.43	
103.0	002.1361	0128.4	025.0	264.0	002.2000	0105.8	088.5	35.39	
104.0	002.1634	0127.6	025.0	263.7	002.2000	0105.6	088.7	35.34	
105.0	002.1909	0126.4	025.0	263.4	002.2000	0105.4	088.9	35.29	
106.0	002.2185	0125.2	025.0	263.2	002.2000	0105.2	089.1	35.22	
107.0	002.2464	0124.1	025.0	262.9	002.2000	0105.1	089.3	35.16	
108.0	002.2744	0123.5	025.0	262.7	002.2000	0104.9	089.4	35.11	
109.0	002.3026	0123.3	025.0	262.4	002.2000	0104.7	089.6	35.06	
110.0	002.3309	0123.6	025.1	262.2	002.2000	0104.5	089.7	35.02	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B8 (continued)

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
60 dBu

Interfering
40 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
111.0	002.3838	0123.9	025.3	261.9	002.2000	0104.4	089.8	34.99	
112.0	002.4372	0124.2	025.4	261.6	002.2000	0104.2	089.9	34.95	
113.0	002.4912	0124.1	025.6	261.3	002.2000	0104.0	090.0	34.91	
114.0	002.5459	0123.7	025.6	261.0	002.2000	0103.9	090.2	34.86	
115.0	002.6011	0123.4	025.7	260.7	002.2000	0103.7	090.4	34.80	
116.0	002.6569	0123.3	025.9	260.5	002.2000	0103.5	090.5	34.75	
117.0	002.7133	0123.2	026.0	260.2	002.2000	0103.4	090.7	34.69	
118.0	002.7703	0123.1	026.1	259.9	002.2000	0103.2	090.9	34.63	
119.0	002.8279	0123.1	026.2	259.7	002.2000	0103.0	091.1	34.57	
120.0	002.8861	0123.0	026.3	259.4	002.2000	0102.8	091.3	34.50	
121.0	002.9504	0123.1	026.4	259.1	002.2000	0102.6	091.5	34.44	
122.0	003.0155	0123.1	026.6	258.9	002.2000	0102.4	091.8	34.37	
123.0	003.0812	0123.0	026.7	258.6	002.2000	0102.2	092.0	34.30	
124.0	003.1477	0122.7	026.8	258.4	002.2000	0102.0	092.3	34.22	
125.0	003.2149	0122.3	026.9	258.1	002.2000	0101.8	092.5	34.13	
126.0	003.2827	0121.9	027.0	257.9	002.2000	0101.5	092.8	34.05	
127.0	003.3513	0121.5	027.1	257.7	002.2000	0101.3	093.1	33.96	
128.0	003.4206	0121.1	027.2	257.4	002.2000	0101.1	093.4	33.87	
129.0	003.4906	0120.6	027.2	257.2	002.2000	0100.9	093.8	33.78	
130.0	003.5614	0120.1	027.3	257.0	002.2000	0100.7	094.1	33.69	
131.0	003.6027	0119.6	027.3	256.8	002.2000	0100.6	094.5	33.58	
132.0	003.6444	0119.3	027.4	256.6	002.2000	0100.4	094.9	33.48	
133.0	003.6862	0119.3	027.4	256.4	002.2000	0100.3	095.2	33.39	
134.0	003.7283	0119.3	027.5	256.3	002.2000	0100.1	095.6	33.29	
135.0	003.7707	0119.3	027.6	256.1	002.2000	0099.9	096.0	33.19	
136.0	003.8133	0119.3	027.7	255.9	002.2000	0099.8	096.3	33.08	
137.0	003.8561	0119.1	027.7	255.7	002.2000	0099.6	096.8	32.98	
138.0	003.8992	0118.8	027.7	255.6	002.2000	0099.5	097.2	32.87	
139.0	003.9425	0118.5	027.8	255.4	002.2000	0099.4	097.6	32.77	
140.0	003.9860	0118.1	027.8	255.3	002.2000	0099.2	098.0	32.66	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B9

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
340.0	002.2000	0124.9	024.9	223.2	033.0000	0184.6	098.6	47.48	
341.0	002.2000	0124.2	024.9	223.0	033.0000	0184.6	098.2	47.58	
342.0	002.2000	0123.5	024.8	222.9	033.0000	0184.6	097.8	47.68	
343.0	002.2000	0122.6	024.7	222.7	033.0000	0184.5	097.5	47.78	
344.0	002.2000	0121.5	024.6	222.5	033.0000	0184.5	097.2	47.87	
345.0	002.2000	0120.4	024.6	222.3	033.0000	0184.5	096.9	47.95	
346.0	002.2000	0119.5	024.5	222.2	033.0000	0184.4	096.6	48.04	
347.0	002.2000	0118.7	024.4	222.0	033.0000	0184.4	096.2	48.13	
348.0	002.2000	0117.6	024.3	221.8	033.0000	0184.3	096.0	48.21	
349.0	002.2000	0116.2	024.2	221.6	033.0000	0184.3	095.7	48.28	
350.0	002.2000	0114.7	024.1	221.4	033.0000	0184.2	095.4	48.35	
351.0	002.2000	0113.6	024.0	221.1	033.0000	0184.2	095.2	48.43	
352.0	002.2000	0113.1	023.9	221.0	033.0000	0184.1	094.9	48.51	
353.0	002.2000	0113.0	023.9	220.8	033.0000	0184.1	094.6	48.59	
354.0	002.2000	0111.9	023.8	220.6	033.0000	0184.1	094.4	48.66	
355.0	002.2000	0110.2	023.6	220.3	033.0000	0184.0	094.2	48.71	
356.0	002.2000	0108.9	023.5	220.1	033.0000	0184.0	094.0	48.77	
357.0	002.2000	0109.2	023.5	219.9	033.0000	0184.0	093.7	48.85	
358.0	002.2000	0109.5	023.6	219.7	033.0000	0183.9	093.4	48.94	
359.0	002.2000	0109.8	023.6	219.6	033.0000	0184.0	093.1	49.03	
000.0	002.2000	0110.1	023.6	219.4	033.0000	0183.9	092.8	49.11	
001.0	002.2000	0110.3	023.6	219.2	033.0000	0183.9	092.6	49.19	
002.0	002.2000	0110.8	023.7	219.0	033.0000	0183.9	092.3	49.28	
003.0	002.2000	0110.9	023.7	218.8	033.0000	0183.9	092.0	49.35	
004.0	002.2000	0110.9	023.7	218.6	033.0000	0184.0	091.8	49.42	
005.0	002.2000	0110.9	023.7	218.4	033.0000	0184.0	091.6	49.49	
006.0	002.2000	0111.4	023.7	218.2	033.0000	0184.0	091.3	49.57	
007.0	002.2000	0111.7	023.8	217.9	033.0000	0184.0	091.1	49.64	
008.0	002.2000	0112.1	023.8	217.7	033.0000	0184.1	090.8	49.72	
009.0	002.2000	0112.3	023.8	217.5	033.0000	0184.1	090.6	49.79	
010.0	002.2000	0112.6	023.9	217.3	033.0000	0184.2	090.4	49.85	
011.0	002.1519	0113.0	023.8	217.0	033.0000	0184.2	090.3	49.89	
012.0	002.1043	0113.2	023.7	216.8	033.0000	0184.3	090.2	49.91	
013.0	002.0572	0113.4	023.6	216.5	033.0000	0184.3	090.1	49.94	
014.0	002.0107	0113.4	023.4	216.2	033.0000	0184.3	090.1	49.95	
015.0	001.9688	0113.4	023.3	216.0	033.0000	0184.3	090.0	49.96	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B9 (continued)

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
017.0	001.8783	0113.5	023.1	215.4	033.0000	0184.2	090.0	49.97	
018.0	001.8339	0113.4	023.0	215.1	033.0000	0184.1	090.0	49.96	
019.0	001.7899	0113.2	022.8	214.9	033.0000	0184.0	090.0	49.95	
020.0	001.7465	0112.9	022.7	214.6	033.0000	0183.9	090.1	49.93	
021.0	001.7270	0112.7	022.6	214.3	033.0000	0183.7	090.1	49.93	
022.0	001.7076	0112.7	022.5	214.1	033.0000	0183.6	090.0	49.93	
023.0	001.6882	0112.6	022.4	213.8	033.0000	0183.4	090.0	49.92	
024.0	001.6690	0112.3	022.4	213.6	033.0000	0183.2	090.1	49.91	
025.0	001.6499	0111.9	022.3	213.3	033.0000	0183.0	090.1	49.89	
026.0	001.6309	0111.5	022.2	213.1	033.0000	0182.8	090.1	49.87	
027.0	001.6120	0111.5	022.1	212.8	033.0000	0182.6	090.2	49.86	
028.0	001.5932	0111.9	022.1	212.6	033.0000	0182.4	090.2	49.85	
029.0	001.5746	0112.3	022.1	212.3	033.0000	0182.2	090.2	49.84	
030.0	001.5560	0112.5	022.0	212.1	033.0000	0181.9	090.2	49.83	
031.0	001.5192	0112.2	021.9	211.9	033.0000	0181.7	090.3	49.77	
032.0	001.4829	0111.7	021.7	211.6	033.0000	0181.5	090.5	49.71	
033.0	001.4434	0111.2	021.5	211.4	033.0000	0181.4	090.7	49.65	
034.0	001.4080	0111.2	021.4	211.1	033.0000	0181.2	090.8	49.60	
035.0	001.3730	0111.6	021.3	210.9	033.0000	0181.0	091.0	49.56	
036.0	001.3385	0112.0	021.2	210.7	033.0000	0180.8	091.1	49.51	
037.0	001.3044	0112.2	021.1	210.5	033.0000	0180.6	091.2	49.46	
038.0	001.2674	0112.3	021.0	210.2	033.0000	0180.5	091.4	49.40	
039.0	001.2342	0112.4	020.8	210.0	033.0000	0180.3	091.6	49.34	
040.0	001.2015	0112.5	020.7	209.8	033.0000	0180.2	091.8	49.28	
041.0	001.1532	0112.6	020.5	209.6	033.0000	0180.0	092.0	49.19	
042.0	001.1059	0112.6	020.3	209.4	033.0000	0179.8	092.3	49.10	
043.0	001.0596	0112.4	020.1	209.3	033.0000	0179.7	092.6	49.01	
044.0	001.0143	0112.4	019.8	209.1	033.0000	0179.5	092.9	48.91	
045.0	000.9700	0112.8	019.7	208.9	033.0000	0179.4	093.2	48.83	
046.0	000.9238	0113.3	019.5	208.8	033.0000	0179.2	093.5	48.74	
047.0	000.8815	0113.9	019.3	208.6	033.0000	0179.1	093.8	48.65	
048.0	000.8402	0114.2	019.1	208.4	033.0000	0179.0	094.1	48.56	
049.0	000.7999	0114.3	018.8	208.3	033.0000	0178.8	094.4	48.46	
050.0	000.7606	0114.4	018.6	208.2	033.0000	0178.7	094.8	48.35	
051.0	000.7299	0114.4	018.4	208.0	033.0000	0178.6	095.1	48.26	
052.0	000.6998	0114.5	018.2	207.9	033.0000	0178.5	095.4	48.17	
053.0	000.6703	0114.7	018.0	207.8	033.0000	0178.4	095.7	48.08	
054.0	000.6415	0114.8	017.8	207.7	033.0000	0178.4	096.0	47.98	
055.0	000.6133	0114.9	017.6	207.6	033.0000	0178.3	096.3	47.89	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B9 (continued)

WUBU - Proposed
Channel = 292A
Max ERP = 2.2 kW
RCAMSL = 340.5 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

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
056.0	000.5858	0114.9	017.4	207.5	033.0000	0178.2	096.7	47.79	
057.0	000.5588	0115.0	017.2	207.4	033.0000	0178.2	097.0	47.69	
058.0	000.5325	0115.2	017.0	207.3	033.0000	0178.1	097.3	47.59	
059.0	000.5069	0115.5	016.7	207.2	033.0000	0178.1	097.7	47.50	
060.0	000.4819	0115.6	016.5	207.1	033.0000	0178.1	098.0	47.40	
061.0	000.4615	0115.4	016.3	207.1	033.0000	0178.0	098.4	47.30	
062.0	000.4435	0114.7	016.1	207.0	033.0000	0178.0	098.7	47.20	
063.0	000.4240	0113.6	015.8	207.0	033.0000	0178.0	099.1	47.09	
064.0	000.4068	0112.5	015.5	207.0	033.0000	0178.0	099.5	46.99	
065.0	000.3881	0111.4	015.2	206.9	033.0000	0178.0	099.9	46.89	
066.0	000.3698	0110.4	014.9	206.9	033.0000	0178.0	100.3	46.78	
067.0	000.3538	0109.4	014.7	206.9	033.0000	0178.0	100.6	46.69	
068.0	000.3363	0108.6	014.4	206.9	033.0000	0178.0	101.0	46.59	
069.0	000.3210	0108.1	014.2	206.8	033.0000	0178.0	101.3	46.51	
070.0	000.3044	0107.9	014.0	206.8	033.0000	0178.0	101.6	46.42	
071.0	000.2915	0107.7	013.9	206.8	033.0000	0177.9	101.9	46.35	
072.0	000.2804	0107.6	013.7	206.8	033.0000	0177.9	102.2	46.28	
073.0	000.2680	0107.4	013.6	206.7	033.0000	0177.9	102.5	46.20	
074.0	000.2573	0107.2	013.4	206.7	033.0000	0177.9	102.7	46.13	
075.0	000.2454	0107.0	013.2	206.7	033.0000	0177.9	103.0	46.06	
076.0	000.2338	0106.9	013.1	206.7	033.0000	0177.9	103.3	45.99	
077.0	000.2239	0106.6	012.9	206.7	033.0000	0177.9	103.6	45.92	
078.0	000.2128	0105.9	012.7	206.7	033.0000	0177.9	103.9	45.84	
079.0	000.2033	0105.1	012.5	206.7	033.0000	0177.9	104.2	45.77	
080.0	000.1928	0104.1	012.3	206.7	033.0000	0177.9	104.5	45.70	
081.0	000.1850	0103.1	012.1	206.7	033.0000	0177.9	104.8	45.63	
082.0	000.1774	0102.3	012.0	206.7	033.0000	0177.9	105.0	45.56	
083.0	000.1700	0101.7	011.8	206.7	033.0000	0177.9	105.3	45.50	
084.0	000.1628	0101.4	011.7	206.7	033.0000	0177.9	105.5	45.44	
085.0	000.1557	0101.0	011.5	206.7	033.0000	0177.9	105.8	45.38	
086.0	000.1476	0100.6	011.4	206.8	033.0000	0177.9	106.0	45.32	
087.0	000.1408	0099.9	011.2	206.8	033.0000	0177.9	106.3	45.26	
088.0	000.1342	0099.1	011.0	206.8	033.0000	0177.9	106.5	45.20	
089.0	000.1278	0098.4	010.9	206.8	033.0000	0178.0	106.8	45.14	
090.0	000.1215	0097.9	010.7	206.9	033.0000	0178.0	107.0	45.08	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
54 dBu

Interfering
48 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
160.0	033.0000	0177.3	064.2	066.2	000.3672	0110.2	088.3	27.88	
161.0	033.0000	0176.3	064.1	066.0	000.3691	0110.3	087.2	28.22	
162.0	033.0000	0175.7	064.1	065.9	000.3710	0110.4	086.1	28.56	
163.0	033.0000	0175.5	064.0	065.8	000.3727	0110.5	085.0	28.89	
164.0	033.0000	0175.3	064.0	065.7	000.3747	0110.7	083.9	29.24	
165.0	033.0000	0175.0	064.0	065.6	000.3771	0110.8	082.8	29.58	
166.0	033.0000	0174.7	064.0	065.4	000.3798	0111.0	081.7	29.94	
167.0	033.0000	0174.6	063.9	065.3	000.3826	0111.1	080.6	30.29	
168.0	033.0000	0174.5	063.9	065.1	000.3857	0111.3	079.5	30.64	
169.0	033.0000	0174.4	063.9	064.9	000.3893	0111.5	078.4	31.00	
170.0	033.0000	0174.3	063.9	064.7	000.3931	0111.7	077.3	31.37	
171.0	033.0000	0174.3	063.9	064.5	000.3973	0111.9	076.2	31.74	
172.0	033.0000	0174.3	063.9	064.3	000.4018	0112.2	075.2	32.11	
173.0	033.0000	0174.5	063.9	064.0	000.4065	0112.4	074.1	32.49	
174.0	033.0000	0174.7	064.0	063.7	000.4111	0112.7	073.0	32.87	
175.0	033.0000	0174.4	063.9	063.4	000.4168	0113.1	072.0	33.26	
176.0	033.0000	0174.0	063.9	063.1	000.4231	0113.5	071.0	33.65	
177.0	033.0000	0173.6	063.8	062.7	000.4305	0113.9	070.0	34.05	
178.0	033.0000	0174.3	063.9	062.3	000.4369	0114.3	068.9	34.46	
179.0	033.0000	0175.0	064.0	062.0	000.4439	0114.7	067.9	34.87	
180.0	033.0000	0175.1	064.0	061.6	000.4515	0115.1	066.9	35.27	
181.0	033.0000	0174.9	064.0	061.1	000.4601	0115.4	065.9	35.67	
182.0	033.0000	0174.7	064.0	060.6	000.4702	0115.6	065.0	36.08	
183.0	033.0000	0174.6	064.0	060.0	000.4809	0115.6	064.0	36.49	
184.0	033.0000	0174.5	063.9	059.5	000.4947	0115.6	063.1	36.91	
185.0	033.0000	0174.8	064.0	058.9	000.5089	0115.5	062.2	37.34	
186.0	033.0000	0175.2	064.0	058.3	000.5238	0115.3	061.2	37.78	
187.0	033.0000	0175.6	064.1	057.7	000.5397	0115.1	060.3	38.22	
188.0	033.0000	0176.1	064.1	057.1	000.5567	0115.0	059.4	38.67	
189.0	033.0000	0176.4	064.1	056.4	000.5754	0115.0	058.6	39.13	
190.0	033.0000	0176.6	064.2	055.6	000.5955	0114.9	057.7	39.58	
191.0	033.0000	0177.1	064.2	054.9	000.6163	0114.9	056.9	40.05	
192.0	033.0000	0177.7	064.3	054.1	000.6383	0114.8	056.1	40.50	
193.0	033.0000	0178.1	064.3	053.3	000.6624	0114.7	055.3	40.96	
194.0	033.0000	0178.4	064.3	052.4	000.6880	0114.6	054.6	41.40	
195.0	033.0000	0178.8	064.4	051.5	000.7152	0114.5	053.9	41.84	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B10 (continued)

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
54 dBu

Interfering
48 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
196.0	033.0000	0179.2	064.4	050.5	000.7440	0114.4	053.2	42.28	
197.0	033.0000	0179.4	064.4	049.5	000.7786	0114.3	052.5	42.72	
198.0	033.0000	0178.9	064.4	048.5	000.8213	0114.3	052.0	43.17	
199.0	033.0000	0178.0	064.3	047.3	000.8674	0114.0	051.5	43.58	
200.0	033.0000	0177.2	064.2	046.2	000.9159	0113.4	051.0	43.95	
201.0	033.0000	0176.8	064.2	045.0	000.9688	0112.8	050.6	44.33	
202.0	033.0000	0176.7	064.2	043.9	001.0209	0112.4	050.2	44.70	
203.0	033.0000	0177.0	064.2	042.7	001.0749	0112.5	049.7	45.10	
204.0	033.0000	0177.4	064.2	041.5	001.1314	0112.6	049.3	45.49	
205.0	033.0000	0177.7	064.3	040.2	001.1909	0112.6	049.0	45.85	
206.0	033.0000	0177.8	064.3	038.9	001.2360	0112.4	048.7	46.11	
207.0	033.0000	0178.0	064.3	037.7	001.2801	0112.3	048.4	46.35	
208.0	033.0000	0178.6	064.4	036.4	001.3263	0112.1	048.2	46.59	
209.0	033.0000	0179.4	064.4	035.0	001.3716	0111.6	047.9	46.80	
210.0	033.0000	0180.3	064.5	033.7	001.4183	0111.2	047.7	46.99	
211.0	033.0000	0181.0	064.6	032.4	001.4687	0111.5	047.6	47.21	
212.0	033.0000	0181.9	064.7	031.0	001.5192	0112.2	047.5	47.44	
213.0	033.0000	0182.7	064.8	029.6	001.5628	0112.5	047.5	47.60	
214.0	033.0000	0183.5	064.8	028.3	001.5883	0112.0	047.5	47.64	
215.0	033.0000	0184.0	064.9	026.9	001.6139	0111.5	047.5	47.64	
216.0	033.0000	0184.3	064.9	025.5	001.6394	0111.7	047.7	47.67	
217.0	033.0000	0184.2	064.9	024.2	001.6648	0112.3	047.9	47.69	
218.0	033.0000	0184.0	064.9	022.9	001.6899	0112.6	048.2	47.66	
219.0	033.0000	0183.9	064.9	021.6	001.7149	0112.7	048.5	47.61	
220.0	033.0000	0184.0	064.9	020.4	001.7396	0112.8	048.9	47.55	
221.0	033.0000	0184.1	064.9	019.1	001.7853	0113.1	049.2	47.53	
222.0	033.0000	0184.4	064.9	017.9	001.8390	0113.5	049.6	47.52	
223.0	033.0000	0184.6	065.0	016.7	001.8921	0113.5	050.1	47.47	
224.0	033.0000	0184.9	065.0	015.5	001.9448	0113.4	050.6	47.40	
225.0	033.0000	0185.2	065.0	014.4	001.9943	0113.4	051.1	47.30	
226.0	033.0000	0185.7	065.1	013.3	002.0442	0113.4	051.7	47.19	
227.0	033.0000	0186.2	065.1	012.2	002.0944	0113.3	052.2	47.06	
228.0	033.0000	0186.5	065.1	011.2	002.1435	0113.0	052.9	46.90	
229.0	033.0000	0186.7	065.2	010.2	002.1909	0112.7	053.6	46.72	
230.0	033.0000	0186.8	065.2	009.2	002.2000	0112.4	054.3	46.44	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
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December 2015

EXHIBIT B10 (continued)

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 = 2.2 kW
RCAMSL = 340.5 m
N. Lat. 41 36 58.8
W. Lng. 86 11 44.0

Protected
54 dBu

Interfering
48 dBu

Terrain Data: FCC NGDC 30 Sec

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
231.0	033.0000	0186.9	065.2	008.3	002.2000	0112.2	055.0	46.14	
232.0	033.0000	0187.4	065.2	007.5	002.2000	0111.8	055.8	45.83	
233.0	033.0000	0188.2	065.3	006.6	002.2000	0111.6	056.5	45.53	
234.0	033.0000	0189.6	065.4	005.7	002.2000	0111.2	057.2	45.22	
235.0	033.0000	0191.4	065.6	004.8	002.2000	0110.9	058.0	44.93	
236.0	033.0000	0193.2	065.8	004.0	002.2000	0110.9	058.8	44.64	
237.0	033.0000	0194.8	065.9	003.2	002.2000	0110.9	059.6	44.34	
238.0	033.0000	0196.3	066.1	002.4	002.2000	0110.8	060.4	44.03	
239.0	033.0000	0197.8	066.2	001.7	002.2000	0110.7	061.3	43.72	
240.0	033.0000	0199.3	066.4	001.0	002.2000	0110.3	062.2	43.38	
241.0	033.0000	0200.7	066.5	000.4	002.2000	0110.2	063.1	43.06	
242.0	033.0000	0201.9	066.6	359.8	002.2000	0110.0	064.1	42.74	
243.0	033.0000	0203.0	066.7	359.2	002.2000	0109.9	065.1	42.42	
244.0	033.0000	0203.7	066.8	358.7	002.2000	0109.8	066.1	42.10	
245.0	033.0000	0204.0	066.8	358.3	002.2000	0109.6	067.2	41.77	
246.0	033.0000	0204.1	066.8	357.9	002.2000	0109.5	068.2	41.43	
247.0	033.0000	0204.1	066.8	357.5	002.2000	0109.3	069.3	41.09	
248.0	033.0000	0204.1	066.8	357.2	002.2000	0109.2	070.4	40.76	
249.0	033.0000	0204.2	066.8	356.9	002.2000	0109.1	071.5	40.42	
250.0	033.0000	0204.3	066.9	356.6	002.2000	0109.0	072.6	40.09	
251.0	033.0000	0204.4	066.9	356.3	002.2000	0108.9	073.7	39.75	
252.0	033.0000	0204.6	066.9	356.1	002.2000	0108.9	074.8	39.42	
253.0	033.0000	0205.1	066.9	355.8	002.2000	0109.1	076.0	39.11	
254.0	033.0000	0205.8	067.0	355.6	002.2000	0109.4	077.1	38.80	
255.0	033.0000	0206.7	067.1	355.3	002.2000	0109.7	078.2	38.49	
256.0	033.0000	0207.4	067.1	355.1	002.2000	0110.0	079.4	38.17	
257.0	033.0000	0208.1	067.2	355.0	002.2000	0110.3	080.5	37.86	
258.0	033.0000	0209.0	067.3	354.8	002.2000	0110.6	081.7	37.55	
259.0	033.0000	0209.8	067.4	354.6	002.2000	0110.8	082.8	37.23	
260.0	033.0000	0210.6	067.4	354.5	002.2000	0111.1	084.0	36.91	
261.0	033.0000	0211.5	067.5	354.4	002.2000	0111.3	085.1	36.59	
262.0	033.0000	0212.7	067.6	354.3	002.2000	0111.5	086.3	36.27	
263.0	033.0000	0213.9	067.8	354.2	002.2000	0111.6	087.5	35.94	
264.0	033.0000	0214.8	067.8	354.1	002.2000	0111.8	088.7	35.62	
265.0	033.0000	0215.6	067.9	354.1	002.2000	0111.8	089.9	35.30	
266.0	033.0000	0216.0	067.9	354.0	002.2000	0111.9	091.0	34.97	
267.0	033.0000	0215.0	067.9	354.1	002.2000	0111.7	092.2	34.65	
268.0	033.0000	0214.0	067.8	354.2	002.2000	0111.6	093.4	34.33	
269.0	033.0000	0212.9	067.7	354.3	002.2000	0111.4	094.6	34.01	
270.0	033.0000	0212.0	067.6	354.4	002.2000	0111.2	095.8	33.70	

MINOR CHANGE APPLICATION
PARTNERSHIP RADIO, LLC
WUBU (FM) RADIO STATION
CH 292A - 106.3 MHZ - 2.2 kW
SOUTH BEND, INDIANA
December 2015

EXHIBIT B11

§73.215 Allocation Contour Tabulation

North Latitude: 41° 36' 58.8"
West Longitude: 86° 11' 44.0"

HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	100-F1	60-F5	54-F1	48-F1	40-F1
000	230.4	110.1	2.2000	3.42	1.000	2.15	23.61	35.49	49.87	73.09
010	227.9	112.6	2.2000	3.42	1.000	2.16	23.86	35.90	50.29	73.54
020	227.6	112.9	1.7465	2.42	0.891	2.01	22.66	33.82	47.74	70.24
030	228.0	112.5	1.5560	1.92	0.841	1.94	22.02	32.71	46.38	68.52
040	228.0	112.5	1.2015	0.80	0.739	1.78	20.70	30.53	43.61	64.92
050	226.1	114.4	0.7606	-1.19	0.588	1.51	18.61	27.43	39.24	59.41
060	224.9	115.6	0.4819	-3.17	0.468	1.54	16.52	24.64	35.10	54.37
070	232.6	107.9	0.3044	-5.16	0.372	1.22	14.03	21.14	29.93	47.94
080	236.4	104.1	0.1928	-7.15	0.296	0.97	12.31	18.25	26.20	42.24
090	242.6	97.9	0.1215	-9.15	0.235	0.77	10.70	15.20	22.59	36.37
100	245.4	95.1	0.0934	-10.30	0.206	0.68	9.90	13.83	20.77	33.32
110	248.1	92.4	0.0811	-10.91	0.192	0.63	9.43	13.17	19.67	31.49
120	248.2	92.3	0.0769	-11.14	0.187	0.62	9.30	12.99	19.37	31.02
130	250.1	90.4	0.0871	-10.60	0.199	0.65	9.49	13.26	19.81	31.71
140	253.7	86.8	0.1174	-9.30	0.231	0.76	10.02	13.97	20.95	33.68
150	251.0	89.5	0.1750	-7.57	0.282	0.93	11.20	16.12	23.59	38.20
160	251.0	89.5	0.2757	-5.60	0.354	1.16	12.48	18.48	26.41	43.03
170	250.5	90.0	0.4357	-3.61	0.445	1.46	13.99	20.99	29.72	48.41
180	254.9	85.6	0.6875	-1.63	0.559	1.61	15.33	22.96	32.71	52.84
190	255.0	85.5	1.0966	0.40	0.706	1.59	17.46	25.77	37.23	58.51
200	254.9	85.6	1.7348	2.39	0.888	1.84	19.69	28.92	42.07	64.76
210	257.9	82.6	2.2000	3.42	1.000	1.94	20.49	30.15	43.97	67.67
220	259.2	81.3	2.2000	3.42	1.000	1.93	20.33	29.89	43.65	67.38
230	256.3	84.2	2.2000	3.42	1.000	1.95	20.70	30.48	44.38	68.03
240	254.6	85.9	2.2000	3.42	1.000	1.97	20.90	30.82	44.79	68.39
250	248.1	92.4	2.2000	3.42	1.000	2.02	21.69	32.17	46.34	69.75
260	237.3	103.2	2.2000	3.42	1.000	2.10	22.91	34.30	48.62	71.85
270	231.7	108.8	2.2000	3.42	1.000	2.14	23.48	35.27	49.64	72.86
280	228.1	112.4	2.2000	3.42	1.000	2.16	23.84	35.87	50.25	73.50
290	227.0	113.5	2.2000	3.42	1.000	2.17	23.95	36.05	50.44	73.70
300	226.5	114.0	2.2000	3.42	1.000	2.17	23.99	36.13	50.52	73.78
310	225.5	115.0	2.2000	3.42	1.000	2.18	24.08	36.28	50.67	73.95
320	222.0	118.5	2.2000	3.42	1.000	2.20	24.40	36.79	51.19	74.55
330	217.1	123.4	2.2000	3.42	1.000	2.22	24.80	37.45	51.87	75.35
340	215.6	124.9	2.2000	3.42	1.000	2.23	24.92	37.64	52.08	75.60
350	225.8	114.7	2.2000	3.42	1.000	2.18	24.06	36.23	50.63	73.90

AMSL= 340.5

WUBU - South Bend, IN - Proposed

Latitude: 41-36-58.80 N - Longitude: 086-11-44 W
Channel: 292 - Frequency: 106.3 MHz
ERP: 2.20 kW - AMSL Height: 340.5 m
2010 Census Population Within FCC Contour :
70 dBu : 186,631 Persons over 363 sq. km.
60 dBu : 295,202 Persons over 1,174 sq. km.

SERVICE CONTOURS

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

