

**Engineering Statement
In Support of an
Amendment to a Pending Application
BPH-20040217AEB
WJOD(FM), Asbury, IA**

WJOD Terrain/Contour Study

Reference Coordinates:

North Latitude: 42-30-10

West Longitude: 90-42-24

Azimuth °T.	ERP = 9.0 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height	ERP (dBk)	F(50-50) Distance to 70 dBu Contour	F(50-50) Distance to 60 dBu Contour
	Meters AMSL	Meters AAT		km	km
0.0	111.7	150.3	9.542	22.1	37.4
5.0	98.3	163.7	9.542	23.0	39.0
10.0	100.8	161.2	9.542	22.8	38.7
15.0	104.3	157.7	9.542	22.6	38.3
20.0	118.2	143.8	9.542	21.6	36.7
25.0	128.6	133.4	9.542	20.9	35.4
30.0	127.6	134.4	9.542	20.9	35.5
35.0	134.3	127.7	9.542	20.5	34.8
40.0	143.3	118.7	9.542	19.8	33.7
45.0	143.5	118.5	9.542	19.8	33.7
50.0	142.5	119.5	9.542	19.8	33.8
55.0	140.0	122.0	9.542	20.0	34.1
60.0	143.3	118.7	9.542	19.8	33.7
65.0	142.5	119.5	9.542	19.8	33.8
70.0	143.2	118.8	9.542	19.8	33.7
75.0	142.9	119.1	9.542	19.8	33.8
80.0	148.1	113.9	9.542	19.4	33.1
85.0	142.5	119.5	9.542	19.8	33.8
90.0	138.8	123.2	9.542	20.1	34.2
95.0	134.6	127.4	9.542	20.4	34.7
100.0	128.3	133.7	9.542	20.9	35.5
105.0	120.4	141.6	9.542	21.5	36.4
110.0	109.7	152.3	9.542	22.2	37.7
115.0	101.2	160.8	9.542	22.8	38.6
120.0	91.8	170.2	9.542	23.4	39.6
125.0	85.7	176.3	9.542	23.7	40.2
130.0	103.5	158.5	9.542	22.6	38.4
135.0	136.0	126.0	9.542	20.3	34.6
140.0	146.9	115.1	9.542	19.5	33.2
145.0	160.6	101.4	9.542	18.2	31.3
150.0	162.2	99.8	9.542	18.1	31.0
155.0	157.1	104.9	9.542	18.6	31.8

Continued on the next page



Exhibit E, Figure 2

ERP = 9.0 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth °T.	Ave. Elev.	Effective Antenna Height	ERP (dBk)	Distance to	Distance to
	3 to 16 km Meters AMSL			70 dBu Contour km	60 dBu Contour km
160.0	164.2	97.8	9.542	17.9	30.7
165.0	180.1	81.9	9.542	16.1	28.2
170.0	175.1	86.9	9.542	16.7	29.0
175.0	177.3	84.7	9.542	16.4	28.7
180.0	180.9	81.1	9.542	16.0	28.1
185.0	184.1	77.9	9.542	15.7	27.6
190.0	184.8	77.2	9.542	15.6	27.4
195.0	177.5	84.5	9.542	16.4	28.6
200.0	174.9	87.1	9.542	16.7	29.0
205.0	175.3	86.7	9.542	16.7	29.0
210.0	177.0	85.0	9.542	16.5	28.7
215.0	190.7	71.3	9.542	14.9	26.5
220.0	198.4	63.6	9.542	14.2	25.2
225.0	203.3	58.7	9.542	13.7	24.4
230.0	197.3	64.7	9.542	14.3	25.4
235.0	190.3	71.7	9.542	15.0	26.6
240.0	180.2	81.8	9.542	16.1	28.2
245.0	181.4	80.6	9.542	16.0	28.0
250.0	199.7	62.3	9.542	14.0	25.0
255.0	190.6	71.4	9.542	15.0	26.5
260.0	191.7	70.3	9.542	14.8	26.3
265.0	191.5	70.5	9.542	14.9	26.4
270.0	182.0	80.0	9.542	15.9	27.9
275.0	181.5	80.5	9.542	15.9	28.0
280.0	193.6	68.4	9.542	14.6	26.0
285.0	195.0	67.0	9.542	14.5	25.8
290.0	174.7	87.3	9.542	16.7	29.1
295.0	162.9	99.1	9.542	18.0	30.9
300.0	153.4	108.6	9.542	18.9	32.4
305.0	146.9	115.1	9.542	19.5	33.2
310.0	142.2	119.8	9.542	19.9	33.8
315.0	149.1	112.9	9.542	19.3	33.0
320.0	157.8	104.2	9.542	18.5	31.7
325.0	167.5	94.5	9.542	17.5	30.2
330.0	165.2	96.8	9.542	17.8	30.6
335.0	158.4	103.6	9.542	18.4	31.6
340.0	147.3	114.7	9.542	19.5	33.2
345.0	141.3	120.7	9.542	19.9	33.9
350.0	134.4	127.6	9.542	20.4	34.7
355.0	129.8	132.2	9.542	20.8	35.3