

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

KNEI Protected/WJOD Interfering FM Overlap Study

KNEI

Channel= 278

Max ERP = 50 kW

RCAMSL = 463 M

N. Lat = 431828

W. Lng = 912718

Protected

60 dBu

WJOD

Channel = 277

Max ERP = 9 kW

RCAMSL = 359 M

N. Lat = 423010

W. Lng = 904224

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
0.0	50.000	209.2	58.2	337.6	9.000	104.5	159.6	27.4
10.0	50.000	178.2	55.4	340.4	9.000	111.5	152.9	28.8
20.0	50.000	200.8	57.4	344.0	9.000	117.9	149.2	29.6
30.0	50.000	183.7	55.9	346.6	9.000	120.0	141.7	31.0
40.0	50.000	170.8	54.7	348.9	9.000	122.3	133.8	32.6
50.0	50.000	153.7	52.7	350.5	9.000	125.9	125.0	34.3
60.0	50.000	145.3	51.6	351.9	9.000	128.0	116.4	35.9
70.0	50.000	150.0	52.2	353.6	9.000	128.8	107.9	37.6
80.0	50.000	156.0	53.0	354.9	9.000	129.3	99.0	39.7
90.0	50.000	180.1	55.6	356.5	9.000	132.0	89.6	42.4
100.0	50.000	177.1	55.3	355.2	9.000	129.8	80.1	45.0
110.0	50.000	144.9	51.5	349.9	9.000	124.5	72.9	46.9
120.0	50.000	137.2	50.4	344.7	9.000	118.7	66.6	48.6
130.0	50.000	144.1	51.4	338.8	9.000	107.4	60.5	49.9
140.0	50.000	141.2	51.0	330.5	9.000	97.3	57.9	50.2
150.0	50.000	134.1	50.0	321.8	9.000	102.5	58.7	50.3
160.0	50.000	130.5	49.5	314.0	9.000	117.9	61.8	50.1
170.0	50.000	127.0	49.0	307.9	9.000	119.3	67.0	48.5
180.0	50.000	123.7	48.5	303.7	9.000	111.9	73.7	46.0
190.0	50.000	122.0	48.3	301.0	9.000	109.0	81.3	43.7
200.0	50.000	110.8	46.6	300.6	9.000	108.4	89.7	41.3
210.0	50.000	103.9	45.4	300.8	9.000	108.7	97.8	39.2
220.0	50.000	97.3	44.3	301.7	9.000	109.8	105.5	37.5
230.0	50.000	89.1	42.8	303.4	9.000	111.5	112.6	36.1
240.0	50.000	84.7	41.9	305.1	9.000	114.2	119.1	35.0
250.0	50.000	98.9	44.6	305.8	9.000	115.5	127.0	33.7
260.0	50.000	117.5	47.6	306.9	9.000	117.7	135.1	32.2
270.0	50.000	124.6	48.6	309.2	9.000	120.5	141.6	31.0
280.0	50.000	156.4	53.0	311.1	9.000	120.3	150.2	29.5
290.0	50.000	178.4	55.5	313.8	9.000	118.3	156.7	28.4
300.0	50.000	182.8	55.8	317.0	9.000	110.4	160.4	27.5
310.0	50.000	168.9	54.5	320.5	9.000	104.4	161.3	27.1
320.0	50.000	175.3	55.2	323.8	9.000	97.9	163.2	26.6
330.0	50.000	184.8	56.0	327.2	9.000	94.4	164.1	26.3
340.0	50.000	197.0	57.1	330.7	9.000	97.3	164.1	26.4
350.0	50.000	189.9	56.5	334.0	9.000	99.4	161.3	27.0