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

WJOD Protected/KNEI Interfering FM Overlap Study

WJOD
Channel= 277
Max ERP = 9 kW
RCAMSL = 359 M
N. Lat = 423010
W. Lng = 904224

KNEI
Channel = 278
Max ERP = 50 kW
RCAMSL = 463 M
N. Lat = 431828
W. Lng = 912718

Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
0.0	9.000	144.5	36.7	130.8	50.000	145.2	80.6	53.0
10.0	9.000	160.9	38.6	127.2	50.000	138.8	85.0	51.4
20.0	9.000	151.5	37.6	126.3	50.000	138.0	91.5	49.5
30.0	9.000	134.8	35.6	126.6	50.000	138.2	98.2	47.7
40.0	9.000	121.9	34.1	127.4	50.000	139.0	104.3	46.2
50.0	9.000	120.5	33.9	127.9	50.000	139.7	110.2	45.0
60.0	9.000	120.2	33.9	128.7	50.000	141.4	115.9	43.9
70.0	9.000	121.0	34.0	129.9	50.000	143.9	121.3	43.0
80.0	9.000	115.8	33.3	131.7	50.000	145.6	125.8	42.2
90.0	9.000	124.7	34.4	133.1	50.000	144.9	130.9	41.2
100.0	9.000	135.0	35.6	134.8	50.000	142.4	135.7	40.2
110.0	9.000	153.9	37.8	136.6	50.000	141.6	140.9	39.2
120.0	9.000	170.6	39.7	138.8	50.000	142.2	145.2	38.4
130.0	9.000	151.4	37.6	141.6	50.000	140.0	144.9	38.4
140.0	9.000	112.4	32.9	144.3	50.000	138.4	141.1	39.0
150.0	9.000	101.3	31.3	146.6	50.000	137.4	139.6	39.3
160.0	9.000	92.1	29.8	148.7	50.000	136.0	137.5	39.7
170.0	9.000	85.4	28.8	150.6	50.000	133.0	135.1	40.1
180.0	9.000	79.4	27.8	152.4	50.000	129.6	132.3	40.5
190.0	9.000	78.3	27.6	154.2	50.000	126.2	129.6	41.0
200.0	9.000	85.0	28.7	156.2	50.000	125.1	127.2	41.4
210.0	9.000	77.6	27.5	157.3	50.000	126.5	122.8	42.2
220.0	9.000	60.5	24.7	157.3	50.000	126.6	117.5	43.2
230.0	9.000	64.5	25.4	158.5	50.000	128.8	113.7	43.9
240.0	9.000	81.2	28.1	160.4	50.000	130.6	109.8	44.7
250.0	9.000	59.5	24.5	158.7	50.000	129.3	105.0	45.7
260.0	9.000	70.2	26.3	159.4	50.000	130.2	100.4	46.8
270.0	9.000	80.0	27.9	159.6	50.000	130.3	95.4	48.1
280.0	9.000	68.1	26.0	157.3	50.000	126.5	92.1	48.9
290.0	9.000	85.4	28.8	156.8	50.000	125.8	86.6	50.4
300.0	9.000	107.5	32.2	155.7	50.000	124.9	80.5	52.1
310.0	9.000	120.7	33.9	152.6	50.000	129.2	76.1	53.6
320.0	9.000	105.1	31.8	148.1	50.000	136.6	76.6	53.8
330.0	9.000	97.2	30.6	144.0	50.000	138.5	77.7	53.6
340.0	9.000	110.6	32.6	139.7	50.000	141.5	77.0	53.9
350.0	9.000	124.7	34.4	135.3	50.000	141.9	78.2	53.6

Exhibit E, Figure 6