

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

WJOD Protected/KNEI Interfering FM Overlap Study (1° Increments)

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)
311.0	9.000	120.3	33.9	152.2	50.000	130.1	76.0	53.7
312.0	9.000	119.7	33.8	151.8	50.000	131.0	75.8	53.8
313.0	9.000	119.1	33.8	151.3	50.000	131.8	75.7	53.9
314.0	9.000	118.0	33.6	150.9	50.000	132.6	75.6	53.9
315.0	9.000	115.8	33.3	150.4	50.000	133.4	75.8	53.9
316.0	9.000	113.0	33.0	149.9	50.000	134.2	76.0	53.9
317.0	9.000	110.5	32.6	149.4	50.000	135.0	76.2	53.9
318.0	9.000	108.4	32.3	148.9	50.000	135.7	76.4	53.9
319.0	9.000	106.6	32.1	148.5	50.000	136.2	76.5	53.8
320.0	9.000	105.1	31.8	148.1	50.000	136.6	76.6	53.8
321.0	9.000	103.7	31.6	147.6	50.000	136.9	76.8	53.8
322.0	9.000	102.1	31.4	147.2	50.000	137.2	77.0	53.7
323.0	9.000	99.9	31.0	146.8	50.000	137.4	77.3	53.7
324.0	9.000	97.4	30.7	146.4	50.000	137.5	77.6	53.6
325.0	9.000	95.1	30.3	146.0	50.000	137.6	78.0	53.5
326.0	9.000	93.9	30.1	145.6	50.000	137.8	78.1	53.4
327.0	9.000	94.2	30.2	145.2	50.000	137.9	78.1	53.4
328.0	9.000	95.4	30.3	144.8	50.000	138.1	77.9	53.5
329.0	9.000	96.6	30.5	144.4	50.000	138.3	77.8	53.6
330.0	9.000	97.2	30.6	144.0	50.000	138.5	77.7	53.6
331.0	9.000	97.3	30.6	143.6	50.000	138.8	77.8	53.6
332.0	9.000	97.3	30.6	143.2	50.000	139.0	77.9	53.6
333.0	9.000	97.8	30.7	142.8	50.000	139.3	77.9	53.6
334.0	9.000	99.3	30.9	142.4	50.000	139.5	77.8	53.6
335.0	9.000	101.2	31.2	142.0	50.000	139.8	77.6	53.7
336.0	9.000	102.5	31.4	141.6	50.000	140.0	77.5	53.7
337.0	9.000	103.5	31.6	141.1	50.000	140.3	77.5	53.7
338.0	9.000	105.3	31.9	140.7	50.000	140.6	77.4	53.8
339.0	9.000	108.0	32.3	140.2	50.000	141.1	77.2	53.9
340.0	9.000	110.6	32.6	139.7	50.000	141.5	77.0	53.9
341.0	9.000	112.7	32.9	139.2	50.000	141.9	77.0	54.0
342.0	9.000	114.7	33.2	138.8	50.000	142.2	76.9	54.0
343.0	9.000	116.5	33.4	138.3	50.000	142.3	77.0	54.0
344.0	9.000	117.9	33.6	137.8	50.000	142.2	77.1	54.0
345.0	9.000	118.9	33.7	137.4	50.000	142.0	77.2	53.9
346.0	9.000	119.8	33.8	137.0	50.000	141.7	77.4	53.8
347.0	9.000	120.2	33.9	136.6	50.000	141.6	77.6	53.8
348.0	9.000	121.0	34.0	136.2	50.000	141.5	77.9	53.7