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**Measured Ground Conductivities Employed in
Calculation of Distances to Groundwave Contours**

WKHB 620 KHZ N.LAT: 40 17 20 W.LON: 79 42 04

MEASURED CONDUCTIVITIES

ALL DISTANCES ARE IN KILOMETERS (New Metric curves)
ALL DISTANCES ARE CUMULATIVE

AZIMUTH	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST
*****	*****		*****		*****		*****	
0.0	3.0	25.0	1.5	47.0	1.0	79.3		
15.0	2.0	44.0	1.5	77.6				
35.0	5.0	23.0	2.5	135.0	1.5	203.0		
55.0	2.0	64.0	1.5	261.0				
75.0	2.0	44.0	1.5	230.0				
95.0	4.0	11.0	3.0	30.0	1.5	227.0		
115.0	1.5	253.0						
135.0	1.5	96.4						
155.0	4.0	6.2	3.0	33.0	1.0	138.0		
175.0	2.0	60.0	1.5	141.0				
195.0	6.0	16.0	3.0	58.0	2.0	148.0	1.0	214.0
215.0	2.0	70.0	1.5	211.0				
235.0	2.0	50.0	1.0	115.0				
255.0	2.0	78.0	1.5	175.0				
275.0	2.0	80.0	1.5	110.0				
295.0	2.0	62.0	1.5	118.0				
310.0	2.0	77.0	1.5	122.0				
327.5	2.0	129.0						
347.5	2.0	80.5						

See WKHB Application for Modification of Construction Permit, FCC File No. BMP-19990521AQ (as amended) and WKTW [Jeannette, PA] Application for Modification of Construction Permit, FCC File No. BMJP-20001023ADZ

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**Measured Ground Conductivities Employed in
Calculation of Distances to Groundwave Contours**

WHEN 620 KHZ N.LAT: 43 05 34 W.LON: 76 11 17

MEASURED CONDUCTIVITIES

ALL DISTANCES ARE IN KILOMETERS (New Metric curves)
ALL DISTANCES ARE CUMULATIVE

AZIMUTH *****	REGION COND DIST *****		REGION COND DIST *****		REGION COND DIST *****		REGION COND DIST *****	
32.0	4.0	20.1	3.0	32.7				
68.5	4.0	22.9						
77.0	4.0	32.2						
122.0	4.0	29.6						
167.0	4.0	26.7						
201.0	4.0	12.9	3.0	29.9				
225.0	40.0	7.1	4.0	100.1	2.5	225.0		
257.0	4.0	31.2						
274.0	4.0	31.9						
302.0	4.0	32.0						
347.0	4.0	15.0	3.0	32.0				

See WHEN 1968 proof of performance, FCC File No. BL-12,163, and WKHB Application for Modification of Construction Permit, FCC File No. BMP-19990521AQ (as amended)

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**Measured Ground Conductivities Employed in
Calculation of Distances to Groundwave Contours**

WMAL 630 KHZ N.LAT: 39 00 55 W.LON: 77 08 30

MEASURED CONDUCTIVITIES

ALL DISTANCES ARE IN KILOMETERS (New Metric curves)
ALL DISTANCES ARE CUMULATIVE

AZIMUTH	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST
*****	*****		*****		*****		*****	
0.0	2.0	10.4						
15.0	2.0	21.8						
50.0	1.5	102.2						
70.0	0.5	3.6	1.5	66.0	3.0	130.0		
90.0	1.5	74.8	2.0	123.1				
110.0	1.5	16.4	2.0	130.0	1.5	180.2		
140.5	4.0	12.9						

*See WWJZ [640 kHz, Mt. Holly, NJ] Application for Construction Permit, FCC File
No. BMP-19921207AC*

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**Measured Ground Conductivities Employed in
Calculation of Distances to Groundwave Contours**

WRJZ 620 KHZ N.LAT: 35 59 24 W.LON: 83 50 15

MEASURED CONDUCTIVITIES

ALL DISTANCES ARE IN KILOMETERS (New Metric curves)
ALL DISTANCES ARE CUMULATIVE

AZIMUTH	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST
*****	*****		*****		*****		*****	
3.0	2.0	23.3						
14.0	2.0	22.5						
43.0	2.5	25.7						
60.0	4.0	28.2						
73.0	3.0	23.2						
103.0	2.5	20.4						
118.0	2.0	27.8						
131.0	1.0	27.5						
169.0	2.0	22.2						
186.0	2.0	24.6						
204.0	2.0	28.0						
253.0	2.0	11.3						
265.0	1.0	4.4	2.0	12.2				
303.0	2.0	23.5						
337.0	2.0	22.7						

See WRJZ 1977 partial proof of performance, FCC File Number BL-19791210AE

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**Measured Ground Conductivities Employed in
Calculation of Distances to Groundwave Contours**

WSNR 620 KHZ N.LAT: 40 47 51 W.LON: 74 21 36

MEASURED CONDUCTIVITIES
WSNR LICENSED SITE ONLY

ALL DISTANCES ARE IN KILOMETERS (New Metric curves)
ALL DISTANCES ARE CUMULATIVE

AZIMUTH	REGION		REGION		REGION		REGION	
*****	COND	DIST	COND	DIST	COND	DIST	COND	DIST
*****	*****	*****	*****	*****	*****	*****	*****	*****
9.0	3.0	1.3	1.5	3.1	2.0	17.1	1.5	19.8
	1.0	30.9						
11.0	1.5	20.1	1.0	35.1				
35.0	3.0	8.4	5.0	21.4	3.0	32.0		
39.0	3.0	2.6	5.0	20.3	3.0	27.2	2.0	30.4
66.0	2.0	22.4	3.0	54.6	1.5	86.3	2.0	120.4
	1.5	143.7						
82.0	3.0	56.2	2.0	62.1	1.5	74.8	1.0	98.7
	0.5	124.9						
98.0	3.0	72.3	2.0	90.9				
110.0	2.0	12.6	3.0	28.6				
150.0	1.5	1.6	2.0	15.0	3.0	25.1		
185.0	2.0	32.3						
195.0	1.5	1.9	2.0	11.7	3.0	31.9		
211.0	2.0	32.2						
220.0	2.0	32.3						
228.0	2.0	8.4	3.0	28.5				
241.0	4.0	37.5						
250.0	2.0	15.6	1.5	29.8				
258.0	2.0	15.1	1.5	30.4				
265.0	2.0	31.2						
290.0	6.0	9.8	2.0	31.9				
328.0	1.5	2.4	2.0	14.8	1.0	32.2		
335.0	3.0	14.0	2.0	16.3	1.0	29.1		

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**Measured Ground Conductivities Employed in
Calculation of Distances to Groundwave Contours**

WTMJ 620 KHZ N.LAT: 42 42 28 W.LON: 88 03 57

MEASURED CONDUCTIVITIES

ALL DISTANCES ARE IN KILOMETERS (New Metric curves)
ALL DISTANCES ARE CUMULATIVE

AZIMUTH	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST	REGION COND	DIST
*****	*****	*****	*****	*****	*****	*****	*****	*****
0.0	10.0	31.9						
15.0	20.0	33.1						
30.0	20.0	34.3						
55.0	10.0	23.0						
75.0	15.0	26.0						
90.0	20.0	23.1						
140.0	20.0	29.7						
150.0	20.0	32.1						
180.0	20.0	32.4						
190.0	10.0	31.8						
225.0	7.0	33.5						
235.0	8.0	32.0						
270.0	10.0	33.0						
295.0	8.0	32.2						
320.0	8.0	32.8						
340.0	10.0	32.9						

See Petition to Deny filed by WTMJ in WKHB FCC File No. BP-19961016AC