

Exhibit 17.1 Critical Hours Study Towards WLAC - Nashville, TN

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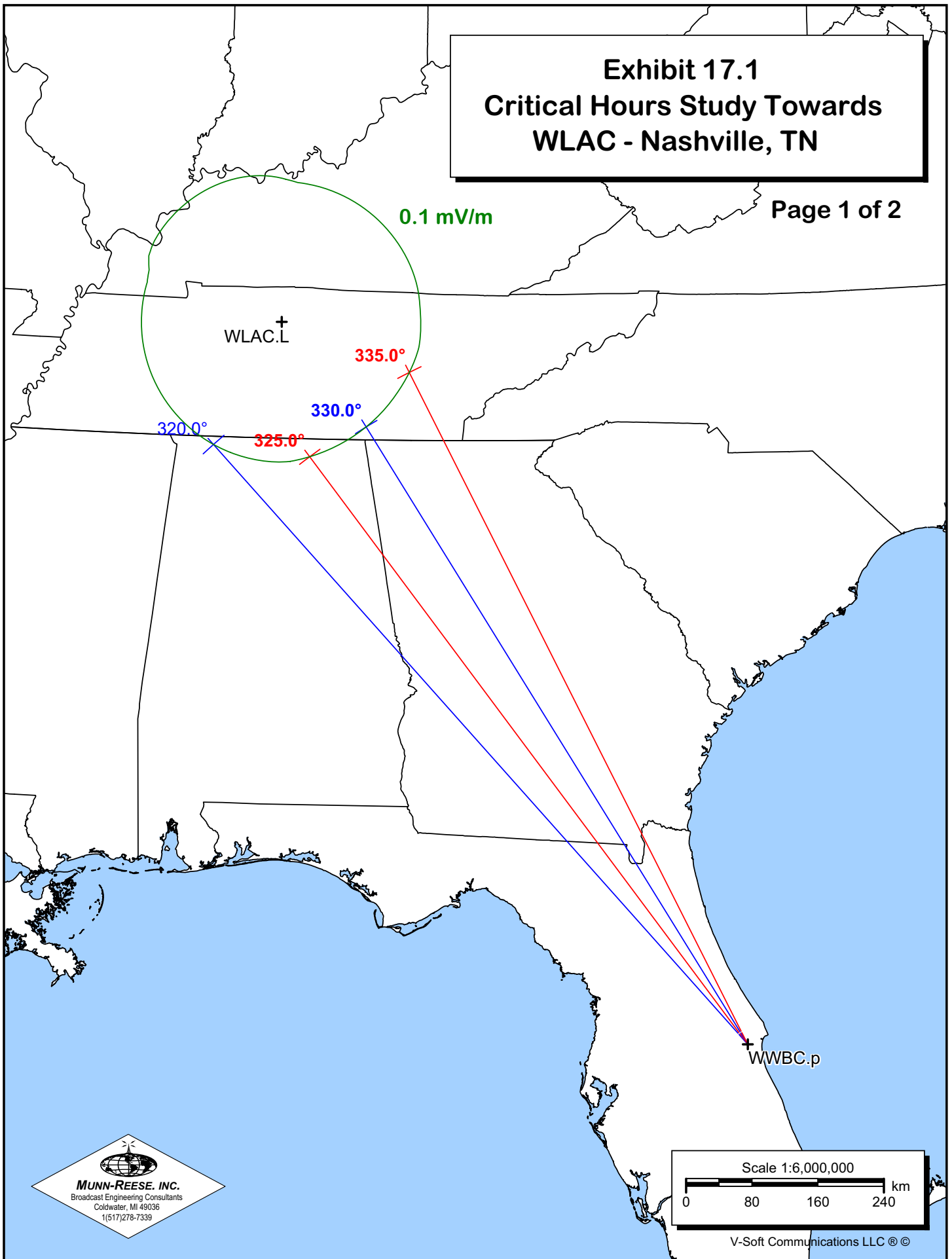
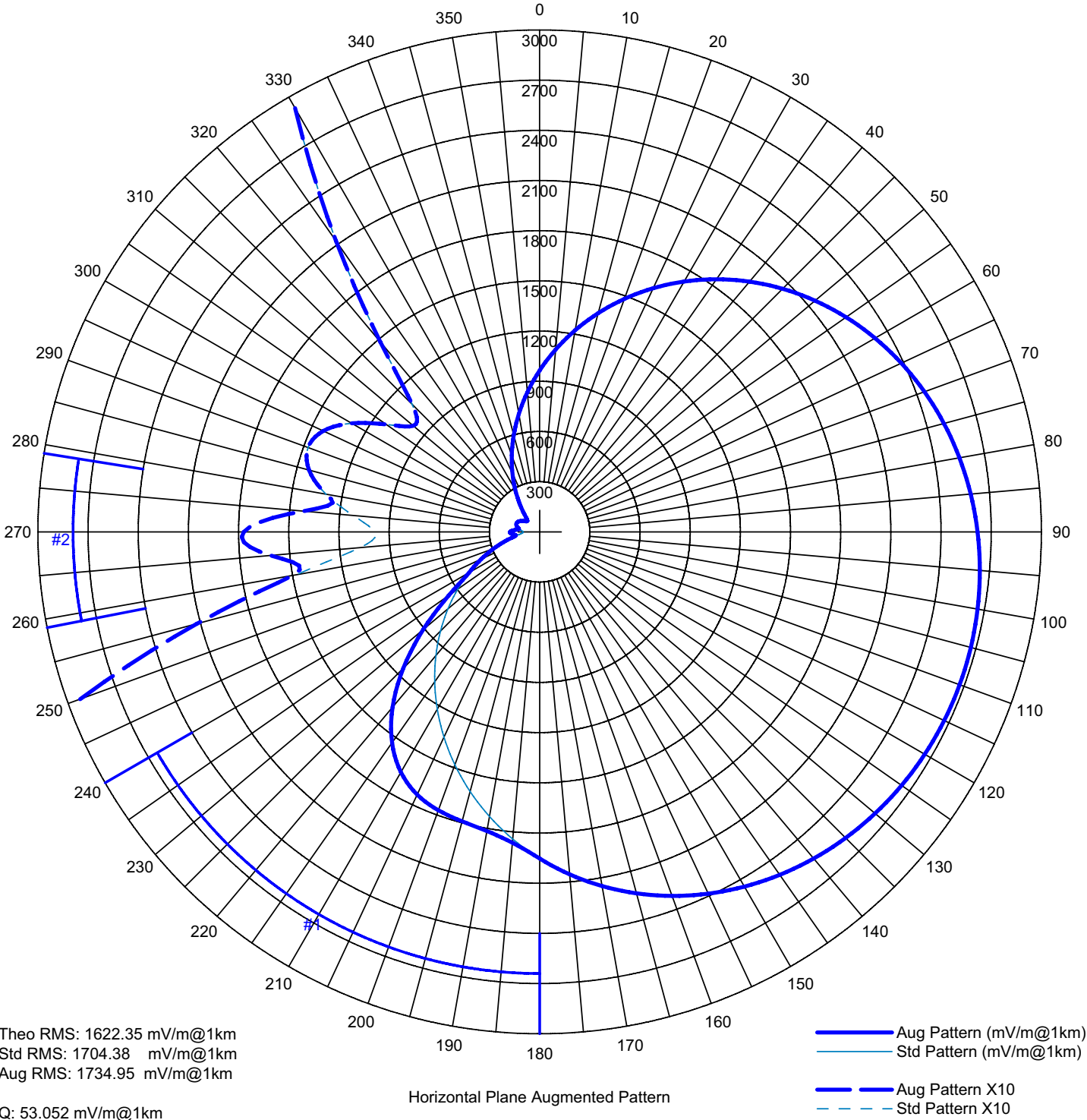


FIGURE 17.1
SPECIAL DAYTIME SKYWAVE STUDY TOWARDS WLAC - NASHVILLE, TN

From WWBC Proposed Site			§73.190 - Figure 10-11		§73.187 Computations				Total Permissible		Proposed
Azimuth ° True	Distance km	Distance miles	1000 kHz Radiation	1600 kHz Radiation	1000 kHz Factor	1600 kHz Factor	1000 kHz Limit	1600 kHz Limit	Radiation mV/m/mi	Radiation mV/m/km	Augmented Pattern
320°	973.9	605.2	540	183	0.150	0.850	81.0	155.6	236.6	380.7	148.12
325°	888.6	552.2	510	170	0.150	0.850	76.5	144.5	221.0	355.7	212.20
330°	880.0	546.8	535	175	0.150	0.850	80.3	148.8	229.0	368.5	292.43
335°	912.1	566.8	570	185	0.150	0.850	85.5	157.3	242.8	390.7	384.86

Exhibit 17.2 - Polar Plot of Proposed Critical Hours Directional Augmented Pattern



#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch
1	1.052	124.0	0.0	0.0	143.7	0
2	1.000	0.0	60.0	110.0	80.0	0

#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	210.00	1658.96	60.0
2	269.00	178.11	20.0

Call: WWBC.P
Freq: 1510 kHz
Cocoa, FL, US
Lat: 28-21-12 N
Lng: 080-46-45 W
Power: 25.0 kW
Theo RMS: 1622.35 mV/m @ 1km
of Augmentations: 2

Munn-Reese, Inc.
Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 17.3

Tabulation of Proposed Critical Hours Directional Augmented Pattern

AM Radiation Report

Call: WWBC
Freq: 1510 kHz
COCOA, FL, US
Lat: 28-21-12 N
Lng: 080-46-45 W
Power: 25.0 kW
Theo RMS: 1622.35 mV/m @ 1km
of Augmentations: 2

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.052	124.0	0.0	0.0	143.7	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	60.0	110.0	80.0	0	0	0.0	0.0	0.0	0.0

Augmented Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	964.49	120.0	2659.02	240.0	487.20
5.0	1093.61	125.0	2642.19	245.0	384.86
10.0	1223.78	130.0	2618.39	250.0	292.43
15.0	1353.58	135.0	2587.38	255.0	212.20
20.0	1481.65	140.0	2548.92	260.0	149.93
25.0	1606.70	145.0	2502.75	265.0	161.48
30.0	1727.54	150.0	2448.61	270.0	176.90
35.0	1843.11	155.0	2386.33	275.0	141.95
40.0	1952.50	160.0	2315.77	280.0	129.73
45.0	2054.96	165.0	2236.93	285.0	142.71
50.0	2149.90	170.0	2149.90	290.0	147.33
55.0	2236.93	175.0	2054.96	295.0	142.71
60.0	2315.77	180.0	1952.50	300.0	129.73
65.0	2386.33	185.0	1865.77	305.0	111.87
70.0	2448.61	190.0	1816.05	310.0	98.68
75.0	2502.75	195.0	1791.30	315.0	107.76
80.0	2548.92	200.0	1770.93	320.0	148.12
85.0	2587.38	205.0	1732.82	325.0	212.20
90.0	2618.39	210.0	1658.96	330.0	292.43
95.0	2642.19	215.0	1538.33	335.0	384.86
100.0	2659.02	220.0	1367.89	340.0	487.20
105.0	2669.04	225.0	1152.94	345.0	597.79
110.0	2672.37	230.0	908.33	350.0	715.15
115.0	2669.04	235.0	664.37	355.0	837.86

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036