

**Partial Proof of Performance: WZON-AM, Bangor, Maine-620khz / 5kw / U / DA-N
The Zone Corporation**

PARTIAL PROOF OF PERFORMANCE

Engineering Statement

As part of continuing preventive maintenance, a partial proof of performance was completed on December 15, 2006 on the directional array of WZON. All readings were taken by myself and an analysis was completed to determine the overall condition of the array. The analysis included comparing field intensity readings taken in both the 1994 and 2002 proofs of performance. The results of this analysis clearly shows that the array is operating in substantial with the authorization and agreement with these prior proofs.

Prior to conducting this partial proof, the phasing circuitry was adjusted for proper operating constants and then the common point impedance was measured. Equipment used to make this measurement was a Potomac Instruments SD-31 synthesizer/detector, and a Delta Electronics OIB-3 impedance bridge. The bridge was calibrated using a 50 ohm precision resistor.

All readings were taken by Howard L. Soule, PhD. Director of Engineering

December 20, 2006

Operating Constants:

	Tower 1	Tower 2
Base Current (Amps)	24.7	12.4
Base Ratio	Reference	0.49
Monitor Ratio	Reference	0.49
Monitor Phase (deg.)	Reference	-148.8
Common Point (Amps)	10.2	
Common Point Impedance	50.0 ohms, +/1 j-0	

30 Degree Radial

Point	Distance	2006 Field	2002 Field	Ratio
1	.85	585	590	.99
4	4.9	45.5	46.2	.98
5	5.5	41.0	41.0	1.00
5A	5.7	26.0	26.8	.97
7	7.4	22.5	22.8	.99
8	9.3	14.2	14.8	.96
9	12.7	8.5	9.3	.91
10	14.9	6.0	6.8	.88
11	18.3	3.0	2.9	1.03
12	21.55	2.0	2.4	0.83

51.8 Degree Radial

2	.63	560	555	1.01
3	2.5	119	120	.99
4	4.2	58.5	59.0	.99
5	4.9	51.0	52.5	.99
8	6.9	24.9	25.9	.97
11	8.6	14.8	15.0	.99
12	9.9	15.8	16.5	.96
13	12.4	9.5	10.0	.95
14	14.9	6.0	6.9	.87
16	15.9	5.5	6.2	.89

97 Degree Radial

Point	Distance	2006	2002	Ratio
1	.60	302	300	1.01
3	1,4	125	128	,98
4	2,1	69.5	71.0	.98
5	2.7	56.0	58.5	.96
6	3.2	48.5	50.2	.97
9	4.4	24.5	25.5	.96
10	7.0	10.5	11.2	.94
11	7.3	8.5	9.0	.94
12	7.7	9.5	10.2	.93
13	11.3	5.2	5.7	.91
14	12.3	2.7	3.2	.84

125 Degree Radial

2	.9	80.0	81.0	.99
5	1.25	68.5	69.0	.99
6	1.4	53.0	53.0	1.00
7	1.6	42.2	43.0	.98
11	2.6	24.5	25.8	.95
12	4.2	13.8	14.0	.99
13	5.7	8.5	8.8	.97
14	7.9	3.7	4.0	.93
15	8.5	2.6	2.7	.96
17	10.1	2.4	2.6	.92

164 Degree Radial

Point	Distance	2006	2002	Ratio
3	.98	262	262	1.0
16	2.7	54.5	55.0	.99
17	4.4	65.8	66.0	.99
18	6.4	18.5	18.8	.99
19	7.6	16.0	16.2	.99
20	8.1	14.9	15.5	.96
23	10.0	5.7	6.0	.95
25	13.2	2.5	2.6	.96
26	14.0	1.9	2.2	.86
27	14.9	1.8	2.0	.90

195 Degree Radial

22	1.5	131	130	1.01
13	4.6	29.5	29.0	1.02
11	5.1	25.2	25.5	.99
28	6.3	18.5	18.5	1.00
29	7.1	15.5	15.8	.98
30	8.1	14.9	15.0	.99
10	9.4	8.8	8.9	.99
8	11.4	4.8	5.1	.94
7	14.2	3.5	3.8	.92
6	15.4	2.6	2.8	.93

218 Degree Radial

Point	Distance	2006	2002	Ratio
5(MP)	1.16	144	145	.99
6	1.5	143	144	.99
7	3.4	57.0	57.0	1.00
9	4.3	30.5	31.0	.98
10	5.6	21.8	22.0	.99
11	7.3	11.1	11.2	.99
12	8.3	12.2	12.5	.98
13	9.3	8.8	8.8	1.00
14	11.4	6.3	6.5	.97
15	12.1	6.0	6.3	.95

237.5 Degree Radial

3(MP)	1.18	104	105	.99
4	1.5	77.8	78.0	.99
5	4.4	23.7	24.0	.99
6	7.6	7.9	7.3	1.08
8	8.7	10.0	10.2	.99
9	9.2	8.8	8.9	.99
10	10.5	7.0	6.9	1.01
11	12.8	2.8	2.8	1.00
12	14.8	1.4	1.5	.93
13	15.8	2.0	2.0	1.00

253.5 Degree Radial

Point	Distance	2006	2002	Ratio
4(MP)	1.32	74.9	75.0	.99
5	1.92	47.2	47.0	1.01
7	5.1	14.0	14.0	1.00
8	6.0	10.1	10.0	1.01
9	7.4	8.2	8.3	.99
10	8.6	5.4	5.5	.99
11	12.2	3.1	3.2	.97
12	12.9	2.0	2.1	.95
13	14.4	1.8	1.9	.95
16	20.18	0.9	0.9	1.00

269 Degree Radial

3	1.7	96.5	97.0	.99
5(MP)	2.6	37.9	38.0	.99
6	4.9	17.6	17.8	.99
7	5.9	10.8	11.0	.98
8	6.5	10.4	10.5	.99
9	7.1	10.0	10.2	.98
10	9.0	6.0	6.1	.98
11	10.2	5.4	5.4	1.00
12	11.5	3.6	3.7	.97
13	13.5	2.1	2.2	.95

312.5 Degree Radial

Point	Distance	2006	2002	Ratio
23	1.5	189	188	1.01
16	3.8	51.0	51.0	1.00
14	4.8	34.3	34.5	.99
13	5.6	23.5	23.2	1.01
9	6.7	18.5	18.5	1.00
8	8.6	12.6	12.8	.98
6	10.1	6.9	7.0	.98
5	11.1	7.4	7.5	.99
4	12.1	6.5	6.9	.94
3	13.5	5.5	5.7	.96

355 Degree Radial

1	0.7	580	575	1.01
3	2.6	98.0	98.0	1.00
4	3.9	59.8	60.0	.99
5	4.7	46.2	46.0	1.01
7	6.9	30.6	30.8	.98
9	11.5	16.2	16.2	1.00
10	13.3	10.2	10.5	.97
11	16.7	4.6	4.8	.96
12	19.2	2.7	2.7	1.00
13	20.5	2.1	2.2	.95

WZON, Bangor Maine

Average Ratios compared To 2002, (DA Antenna)

30.0	Degree Radial	.95
51.8	Degree Radial	.96
97.0	Degree Radial	.95
125.0	Degree Radial	.97
164.0	Degree Radial	.96
195.0	Degree Radial	.98
218.0	Degree Radial	.98
237.5	Degree Radial	1.00
253.5	Degree Radial	.98
269.0	Degree Radial	.98
312.5	Degree Radial	.99
355.0	Degree Radial	.99

The Zone Corporation
WZON-AM
861 Broadway
Bangor, ME 04401

January 8, 2007

To Whom It May Concern:

This Partial Proof of Performance was conducted as part of a regular maintenance schedule for WZON. It was conducted and completed after completion of the new supporting structure of WHSN. The analysis of this partial proof clearly shows that the operation of WZON has in no way been impacted by the erection of the new structure.

Sincerely,

A handwritten signature in black ink, appearing to read 'H. L. Soule', written in a cursive style.

Howard L. Soule, PhD
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