

Exhibit 10

**Antenna Proof-Of-Performance  
License to Cover application for  
WOVM (FM) 91.1 Appleton, WI**

As required by Section 73.316 of the FCC Rules and the terms of the WOVM construction permit, a complete proof-of-performance has been conducted on the WOVM directional antenna by the manufacturer. Attachment 1 details the results of the measurements, description of the equipment and procedures used, and the measured antenna pattern in both the horizontal and vertical polarizations.

Attachment 1, Figure 1 presents a tabulation of the measured composite radiation pattern data in relation to the composite envelope pattern authorized by the WOVM construction permit. As shown in this figure, the measured radiation in both polarizations is totally encompassed by the authorized composite pattern, as required by Section 73.316(c)(2) of the FCC Rules.

The composite measured pattern RMS is 0.831, which is greater than 85% of the RMS authorized envelope pattern of 0.922.

Attachment 2 is a certification from a licensed surveyor, certifying the antenna has been oriented at the proper azimuth.

Attachment 3 is the required engineer's certification verifying that the antenna was installed in compliance with the drawings supplied by the manufacturer.

Based on the above information, the constructed WOVM facilities fully comply with the directional antenna proof of performance requirements outlined in Section 73.316 of the FCC Rules.

## ***Directional Antenna System for WOVM, Appleton, Wisconsin***

August 26, 2008

Electronics Research Inc. is providing a custom fabricated antenna system that is specially designed to meet the FCC requirements and the general needs of radio station WOVM.

The antenna is the ERI model LP-2E-DA-HW configuration. The circular polarized system consists of two half-wavelength spaced bays using one driven circular polarized radiating element per bay, two horizontal parasitic elements per bay and two vertical parasitic elements interleaved between the bays. The antenna was mounted on the North 95 degrees East tower leg with bracketry to provide an antenna orientation of North 95 degrees East. The antenna was tested on a 24" Pi-Rod tower, which is the structure the station plans to use to support the array. All tests were performed on a frequency of 91.1 megahertz, which is the center of the FM broadcast channel assigned to WOVM.

Pattern measurements were made on a sixty-acre antenna pattern range that is owned and operated by Electronics Research, Inc. The tests were performed under the direction of Thomas B. Silliman, president of Electronics Research, Inc. Mr. Silliman has the Bachelor of Electrical Engineering and the Master of Electrical Engineering degrees from Cornell University and is a registered professional engineer in the states of Indiana, Maryland and Minnesota.

# Directional Antenna System Proposed For WOVM, Appleton, Wisconsin

(Continued)

## DESCRIPTION OF THE TEST PROCEDURE

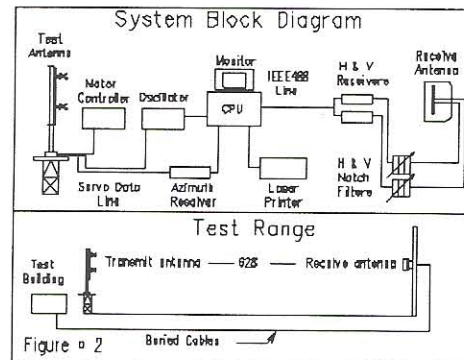
The test antenna consisted of a full-scale model of the complete circular polarized system with the associated horizontal and vertical parasitic elements. The elements and brackets that were used in this test are electrically equivalent to those that will be supplied with the antenna. A section of 1 5/8 inch o.d. rigid coaxial line was used to feed the test antenna, and a section of 1 5/8 inch o.d. rigid outer conductor only was attached above the test antenna. The lines were properly grounded during all tests.

The power distribution and phase relationship to the antenna elements was adjusted in order to achieve the directional radiation patterns for both horizontal and vertical polarization components.

The proof-of-performance was accomplished using a 24" Pi-Rod tower with identical dimension and configuration including all braces, ladders, conduits, coaxial lines and other appurtenances that are included in the actual aperture at which the antenna will be installed. The structure was erected vertically on a turntable mounted on a non-metallic building with the antenna centered vertically on the structure, making the center of radiation of the test approximately 30 feet above ground. The turntable is equipped with a motor drive and a US Digital angle position indicator. The resolution of this angle position indicator is one-hundredth of a degree.

The antenna under test was operated in the transmitting mode and fed from a HP8657D signal generator. The frequency of the signal source was set at 91.1 MHz and was constantly monitored by a Rohde & Schwarz ESVD measuring receiver.

A broadband horizontal and vertical dipole system, located approximately 628 feet from the test antenna, was used to receive the emitted test signals. The dipole system was mounted at the same height above terrain as the center of the antenna under test.





Directional Antenna System  
Proposed For  
WOVM, Appleton, Wisconsin

(Continued)

The signals received by the dipole system were fed to the test building by way of two buried Heliac cables to a Rohde & Schwarz measuring receiver. This data was interfaced to a laser jet printer by means of a computer system. Relative field strength was plotted as a function of azimuth.

The measurements were performed by rotating the test antenna in a counter-clockwise direction and plotting the received signal on polar co-ordinated graph paper in a clockwise direction. Both horizontal and vertical components were recorded separately.

CONCLUSIONS

The circular polarized system consists of two half-wavelength spaced bays using one driven circular polarized radiating element per bay, two horizontal parasitic elements per bay and two vertical parasitic elements interleaved between the bays. The power distribution and phase relationship will be fixed when antenna is manufactured. Proper maintenance of the elements should be all that is required to maintain the pattern in adjustment.

The LP-2E-DA-HW array is to be mounted on the North 95 degrees East tower leg of the 24" Pi-Rod tower at a bearing of North 95 degrees East. Blue prints provided with the antenna will show the proper antenna orientation alignment. The antenna alignment procedure should be directed by a licensed surveyor as prescribed by the FCC.

Figure #1 represents the maximum value of either the horizontal or vertical component at any azimuth. The measured horizontal plane relative field pattern, for both the horizontal and vertical polarization components, is shown on Figure #2 attached. The actual measured pattern does not exceed the authorized FCC composite pattern at any azimuth. A calculated vertical plane relative field pattern is shown on Figure #3 attached. The power in the maximum will reach 3.6 kilowatts (5.563 dBk).

The RMS of the vertically polarized horizontal plane component does not exceed the RMS of the horizontally polarized horizontal plane component.

The composite horizontal and vertical maximum relative field pattern obtained from the measured data as shown on Figure #1 has an RMS that is greater than 85% of the filed composite pattern.

Directional Antenna System  
Proposed For  
WOVM, Appleton, Wisconsin

(Continued)

The clear vertical length of the structure required to support the antenna is 21 feet if the antenna is to be top mounted.

The directional antenna should not be mounted on the top of an antenna tower that includes a top-mounted platform larger than the cross-sectional area of the tower in the horizontal plane. No obstructions other than those that are specified by the blue prints supplied with the antenna are to be mounted within 75 ft. horizontally of the system. The vertical distance to the nearest obstruction should be a minimum of 10 ft. from the directional antenna. Metallic guy wires should be a minimum distance of forty feet horizontally from the antenna.

ELECTRONICS RESEARCH, INC.

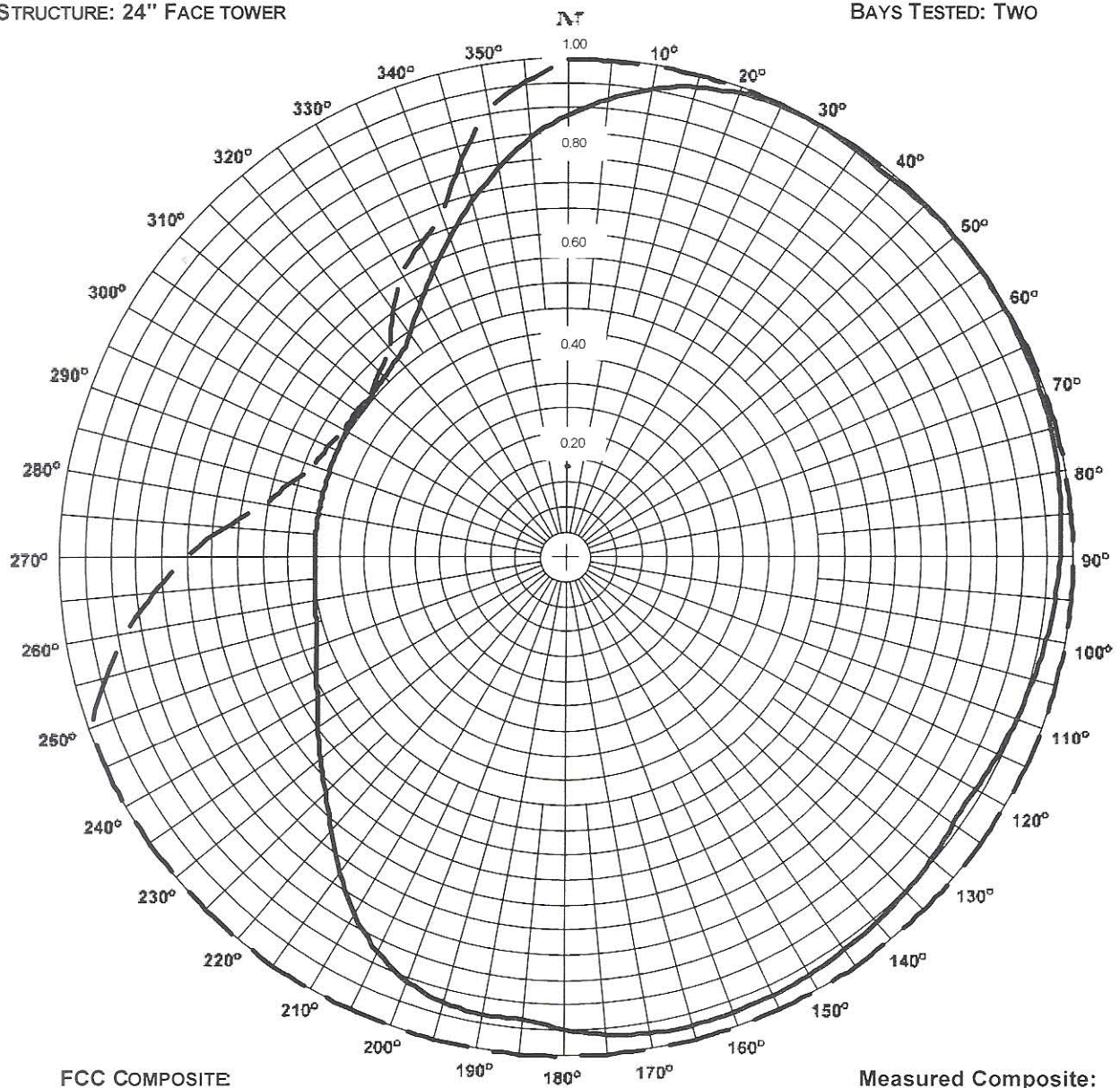
The Microsoft Word document on file electronically at Electronic Research, Inc. governs the specifications, scope, and configuration of the product described. All other representations whether verbal, printed, or electronic are subordinate to the master copy of this document on file at ERI.

# ERI<sup>®</sup> Horizontal Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

FIGURE NO: 1  
STATION: WOVM  
LOCATION: APPLETON, WI  
ANTENNA: LP-2E-DA-HW  
STRUCTURE: 24" FACE TOWER

DATE: 8/22/2008  
FREQUENCY: 91.1 MHz  
ORIENTATION: 95° TRUE  
MOUNTING: STANDARD  
BAYS TESTED: TWO



FCC COMPOSITE  
RMS: 0.922  
MAXIMUM: 1.000 @ 0° TRUE  
MINIMUM: 0.510 @ 310° TRUE

Measured Composite:  
RMS: 0.831  
Maximum: 1.000 @ 28° True  
Minimum: 0.497 @ 270° True

COMMENTS: COMPOSITE PATTERN: THIS PATTERN SHOWS THE MAXIMUM OF EITHER THE H OR V AZIMUTH VALUES. THIS PATTERN IS GREATER THAN 85% OF THE FCC FILED COMPOSITE PATTERN BPED-20080626AAI.



# ERI<sup>®</sup> *Horizontal Plane Relative Field List*

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

Station: WOVM  
Location: Appleton, WI  
Frequency: 91.1 MHz

Antenna: LP-2E-DA-HW  
Orientation: 95° True  
Tower: 24" Face tower

Figure: 1  
Date: 8/22/2008  
Reference: wovm1m.fig

Angle	Envelope			Polarization	Angle	Envelope			Polarization
	Field	kW	dBk			Field	kW	dBk	
0°	0.887	2.84	4.53	Vertical	180°	0.945	3.22	5.08	Vertical
5°	0.923	3.07	4.87	Vertical	185°	0.928	3.10	4.91	Horizontal
10°	0.954	3.28	5.15	Vertical	190°	0.929	3.11	4.93	Horizontal
15°	0.976	3.43	5.35	Vertical	195°	0.923	3.07	4.86	Horizontal
20°	0.990	3.53	5.48	Vertical	200°	0.904	2.94	4.69	Horizontal
25°	0.999	3.59	5.56	Vertical	205°	0.873	2.75	4.39	Horizontal
30°	1.000	3.60	5.56	Vertical	210°	0.829	2.48	3.94	Horizontal
35°	0.997	3.58	5.53	Vertical	215°	0.775	2.16	3.35	Horizontal
40°	0.993	3.55	5.50	Horizontal	220°	0.719	1.86	2.69	Horizontal
45°	0.998	3.59	5.55	Horizontal	225°	0.670	1.62	2.08	Horizontal
50°	1.000	3.60	5.56	Horizontal	230°	0.631	1.44	1.57	Horizontal
55°	0.999	3.60	5.56	Horizontal	235°	0.597	1.28	1.09	Horizontal
60°	0.998	3.59	5.55	Horizontal	240°	0.567	1.16	0.64	Horizontal
65°	0.996	3.57	5.53	Horizontal	245°	0.543	1.06	0.25	Horizontal
70°	0.993	3.55	5.50	Horizontal	250°	0.524	0.99	-0.06	Horizontal
75°	0.989	3.52	5.47	Horizontal	255°	0.511	0.94	-0.27	Horizontal
80°	0.985	3.49	5.43	Horizontal	260°	0.504	0.92	-0.39	Horizontal
85°	0.980	3.46	5.39	Horizontal	265°	0.499	0.90	-0.48	Horizontal
90°	0.975	3.42	5.34	Horizontal	270°	0.497	0.89	-0.51	Horizontal
95°	0.968	3.38	5.28	Horizontal	275°	0.498	0.89	-0.49	Horizontal
100°	0.961	3.33	5.22	Horizontal	280°	0.498	0.89	-0.48	Horizontal
105°	0.954	3.28	5.15	Horizontal	285°	0.499	0.90	-0.47	Horizontal
110°	0.947	3.23	5.09	Horizontal	290°	0.501	0.90	-0.45	Horizontal
115°	0.940	3.18	5.03	Horizontal	295°	0.503	0.91	-0.41	Horizontal
120°	0.934	3.14	4.97	Horizontal	300°	0.505	0.92	-0.37	Horizontal
125°	0.934	3.14	4.97	Vertical	305°	0.507	0.92	-0.34	Horizontal
130°	0.942	3.19	5.04	Vertical	310°	0.508	0.93	-0.32	Horizontal
135°	0.949	3.25	5.11	Vertical	315°	0.513	0.95	-0.24	Horizontal
140°	0.956	3.29	5.17	Vertical	320°	0.523	0.99	-0.06	Horizontal
145°	0.962	3.33	5.22	Vertical	325°	0.546	1.07	0.30	Vertical
150°	0.966	3.36	5.26	Vertical	330°	0.585	1.23	0.91	Vertical
155°	0.969	3.38	5.29	Vertical	335°	0.631	1.43	1.57	Vertical
160°	0.971	3.39	5.31	Vertical	340°	0.683	1.68	2.25	Vertical
165°	0.971	3.40	5.31	Vertical	345°	0.740	1.97	2.95	Vertical
170°	0.968	3.37	5.28	Vertical	350°	0.794	2.27	3.56	Vertical
175°	0.959	3.31	5.20	Vertical	355°	0.845	2.57	4.10	Vertical

Polarization:                      Envelope  
Maximum Field:                    1.000 @ 28° True  
Minimum Field:                    0.497 @ 270° True  
RMS:                                 0.831  
Maximum ERP:                     3.600 kW  
Maximum Power Gain:            1.023 (0.100 dB)

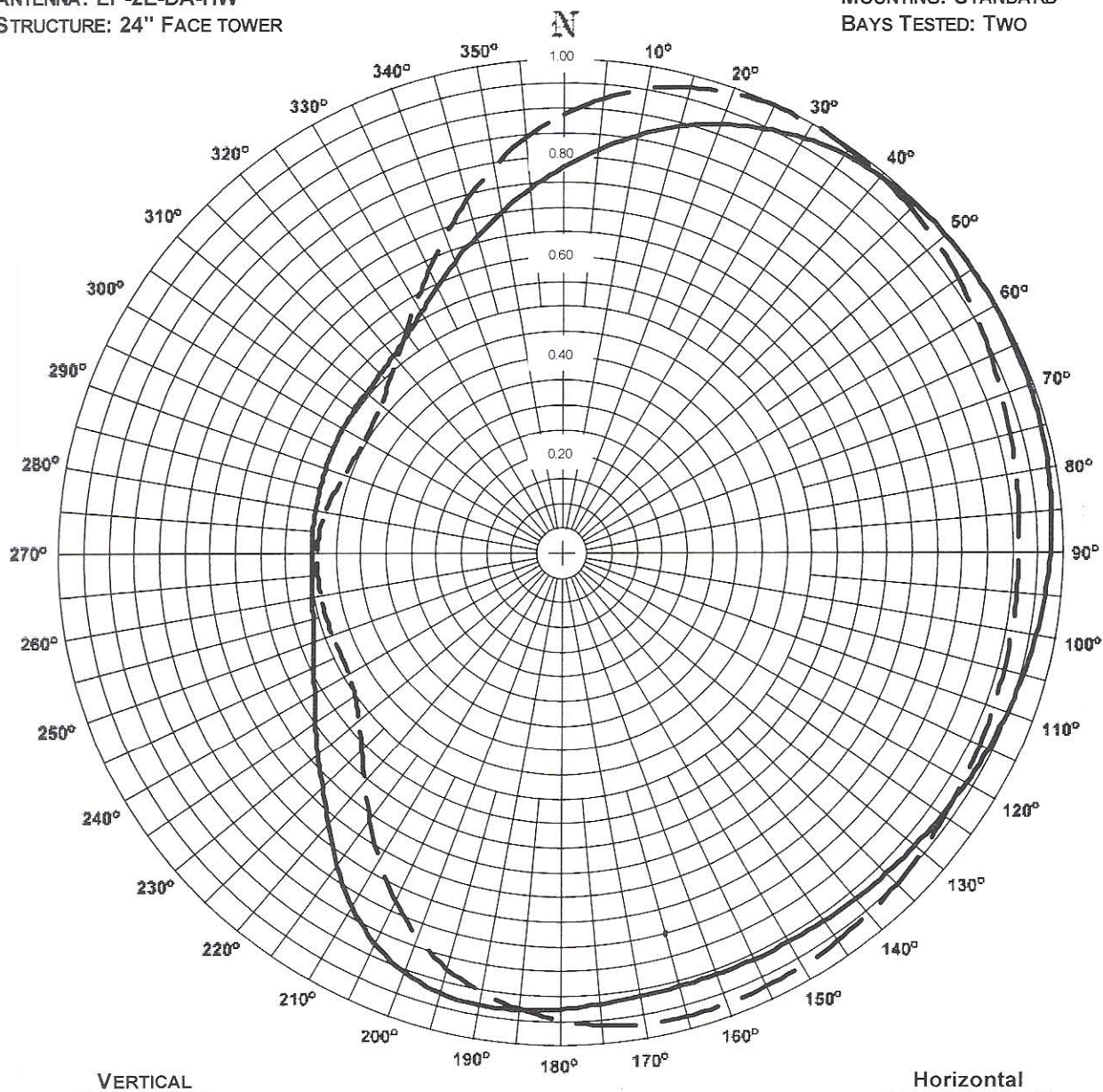
Total Input Power: 3.518 kW

# ERI<sup>®</sup> Horizontal Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

FIGURE NO: 2  
STATION: WOVM  
LOCATION: APPLETON, WI  
ANTENNA: LP-2E-DA-HW  
STRUCTURE: 24" FACE TOWER

DATE: 8/22/2008  
FREQUENCY: 91.1 MHz  
ORIENTATION: 95° TRUE  
MOUNTING: STANDARD  
BAYS TESTED: TWO



RMS: 0.805  
MAXIMUM: 1.000 @ 28° TRUE  
MINIMUM: 0.455 @ 299° TRUE

RMS: 0.810  
Maximum: 1.000 @ 51° True  
Minimum: 0.497 @ 270° True

COMMENTS: MEASURED PATTERNS OF THE HORIZONTAL AND VERTICAL COMPONENTS.



# ERI<sup>®</sup> Horizontal Plane Relative Field List

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

Station: WOVM  
Location: Appleton, WI  
Frequency: 91.1 MHz

Antenna: LP-2E-DA-HW  
Orientation: 95° True  
Tower: 24" Face tower

Figure: 2  
Date: 8/22/2008  
Reference: wovm1mfig

Angle	Horizontal			Vertical			Angle	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.781	2.20	3.42	0.887	2.84	4.53	180°	0.923	3.07	4.87	0.945	3.22	5.08
5°	0.820	2.42	3.84	0.923	3.07	4.87	185°	0.928	3.10	4.91	0.926	3.09	4.90
10°	0.859	2.66	4.24	0.954	3.28	5.15	190°	0.929	3.11	4.93	0.902	2.93	4.66
15°	0.894	2.88	4.59	0.976	3.43	5.35	195°	0.923	3.07	4.86	0.872	2.73	4.37
20°	0.924	3.08	4.88	0.990	3.53	5.48	200°	0.904	2.94	4.69	0.830	2.48	3.95
25°	0.948	3.24	5.10	0.999	3.59	5.56	205°	0.873	2.75	4.39	0.777	2.18	3.37
30°	0.969	3.38	5.29	1.000	3.60	5.56	210°	0.829	2.48	3.94	0.720	1.87	2.72
35°	0.983	3.48	5.42	0.997	3.58	5.53	215°	0.775	2.16	3.35	0.661	1.58	1.97
40°	0.993	3.55	5.50	0.992	3.54	5.49	220°	0.719	1.86	2.69	0.606	1.32	1.22
45°	0.998	3.59	5.55	0.985	3.49	5.43	225°	0.670	1.62	2.08	0.561	1.13	0.54
50°	1.000	3.60	5.56	0.977	3.44	5.36	230°	0.631	1.44	1.57	0.525	0.99	-0.03
55°	0.999	3.60	5.56	0.967	3.36	5.27	235°	0.597	1.28	1.09	0.501	0.90	-0.44
60°	0.998	3.59	5.55	0.955	3.28	5.16	240°	0.567	1.16	0.64	0.488	0.86	-0.67
65°	0.996	3.57	5.53	0.944	3.21	5.06	245°	0.543	1.06	0.25	0.484	0.84	-0.73
70°	0.993	3.55	5.50	0.934	3.14	4.97	250°	0.524	0.99	-0.06	0.484	0.84	-0.73
75°	0.989	3.52	5.47	0.926	3.09	4.90	255°	0.511	0.94	-0.27	0.485	0.85	-0.71
80°	0.985	3.49	5.43	0.920	3.05	4.84	260°	0.504	0.92	-0.39	0.487	0.85	-0.69
85°	0.980	3.46	5.39	0.915	3.02	4.80	265°	0.499	0.90	-0.48	0.487	0.86	-0.68
90°	0.975	3.42	5.34	0.913	3.00	4.77	270°	0.497	0.89	-0.51	0.487	0.86	-0.68
95°	0.968	3.38	5.28	0.912	2.99	4.76	275°	0.498	0.89	-0.49	0.485	0.85	-0.72
100°	0.961	3.33	5.22	0.912	3.00	4.77	280°	0.498	0.89	-0.48	0.479	0.83	-0.82
105°	0.954	3.28	5.15	0.914	3.01	4.78	285°	0.499	0.90	-0.47	0.471	0.80	-0.98
110°	0.947	3.23	5.09	0.917	3.03	4.81	290°	0.501	0.90	-0.45	0.462	0.77	-1.14
115°	0.940	3.18	5.03	0.922	3.06	4.85	295°	0.503	0.91	-0.41	0.456	0.75	-1.25
120°	0.934	3.14	4.97	0.927	3.10	4.91	300°	0.505	0.92	-0.37	0.455	0.74	-1.28
125°	0.929	3.10	4.92	0.934	3.14	4.97	305°	0.507	0.92	-0.34	0.459	0.76	-1.20
130°	0.924	3.07	4.87	0.942	3.19	5.04	310°	0.508	0.93	-0.32	0.470	0.80	-0.99
135°	0.920	3.04	4.84	0.949	3.25	5.11	315°	0.513	0.95	-0.24	0.488	0.86	-0.66
140°	0.916	3.02	4.80	0.956	3.29	5.17	320°	0.523	0.99	-0.06	0.514	0.95	-0.22
145°	0.913	3.00	4.78	0.962	3.33	5.22	325°	0.540	1.05	0.22	0.546	1.07	0.30
150°	0.911	2.99	4.76	0.966	3.36	5.26	330°	0.564	1.14	0.58	0.585	1.23	0.91
155°	0.910	2.98	4.74	0.969	3.38	5.29	335°	0.594	1.27	1.03	0.631	1.43	1.57
160°	0.909	2.98	4.74	0.971	3.39	5.31	340°	0.628	1.42	1.52	0.683	1.68	2.25
165°	0.910	2.98	4.74	0.971	3.40	5.31	345°	0.664	1.59	2.01	0.740	1.97	2.95
170°	0.912	3.00	4.77	0.968	3.37	5.28	350°	0.702	1.78	2.49	0.794	2.27	3.56
175°	0.917	3.03	4.81	0.959	3.31	5.20	355°	0.742	1.98	2.97	0.845	2.57	4.10

Polarization:

Maximum Field:

Minimum Field:

RMS:

Maximum ERP:

Maximum Power Gain:

Horizontal

1.000 @ 51° True

0.497 @ 270° True

0.810

3.600 kW

1.023 (0.100 dB)

Vertical

1.000 @ 28° True

0.455 @ 299° True

0.805

3.600 kW

1.023 (0.100 dB)

Total Input Power: 3.518 kW



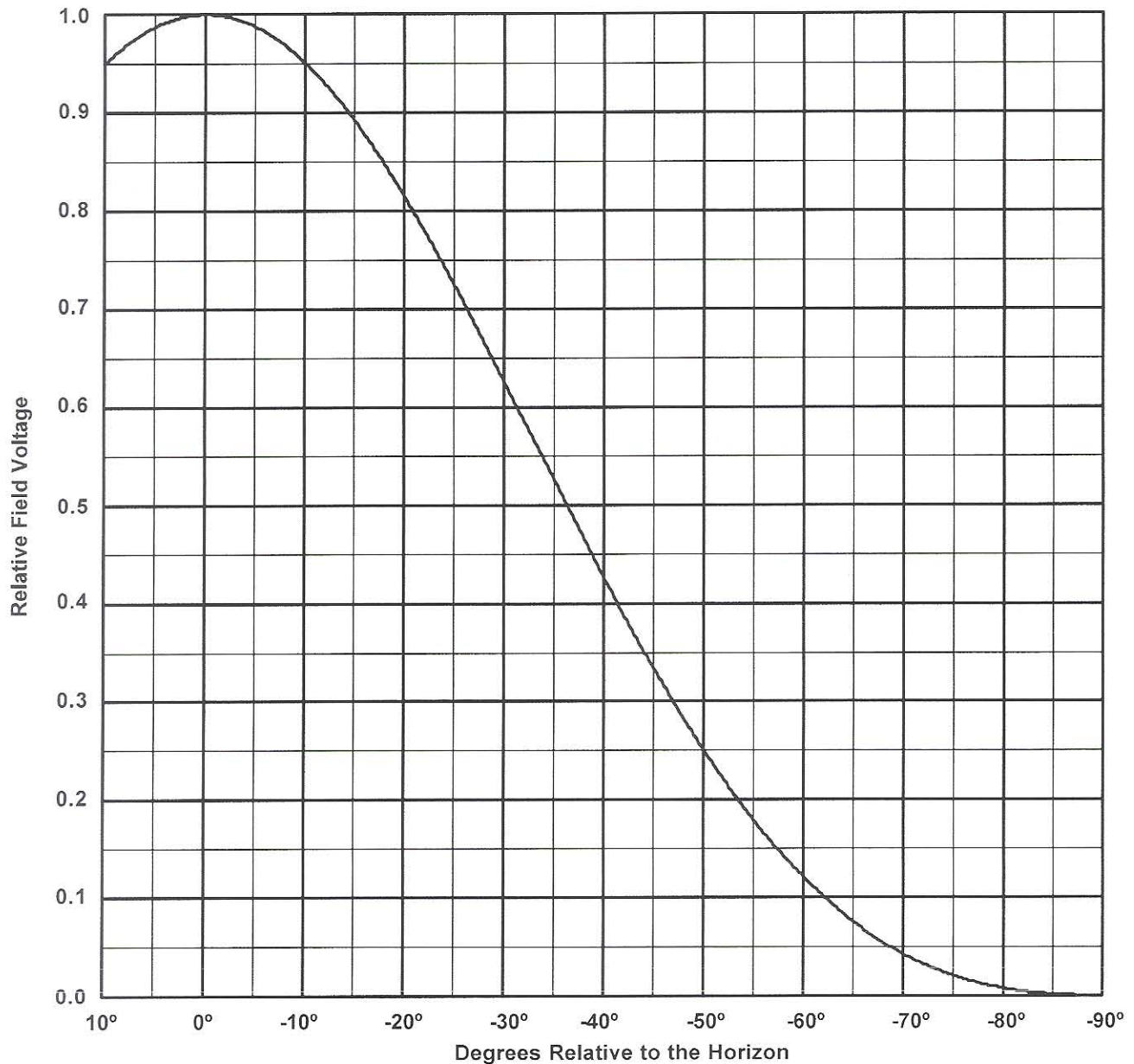
## Vertical Plane Relative Field Pattern

**WOVM, Appleton, WI, 91.1 MHz**

Figure#: 3

Date: 8/22/2008

*A 2 level, .5 wave-length spaced LP-2E-DA-HW directional antenna  
with 0° beam tilt, 0% null fill and a H/V maximum power ratio of 1.000*



### Vertical Polarization Gain:

Maximum: 1.023 (0.100 dB)

Horizontal Plane: 1.023 (0.100 dB)

### Horizontal Polarization Gain:

Maximum: 1.023 (0.100 dB)

Horizontal Plane: 1.023 (0.100 dB)

# Directional Antenna System for WOVM, Appleton, Wisconsin

(Continued)

## ANTENNA SPECIFICATIONS

Antenna Type:	LP-2E-DA-HW
Frequency:	91.1 MHz
Number of Bays:	Two

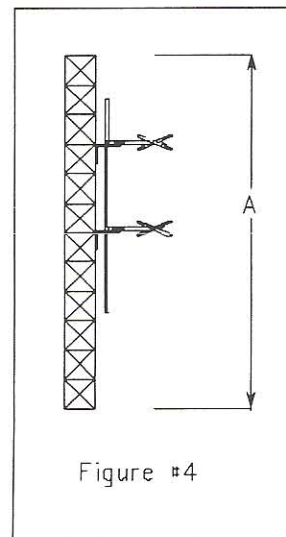
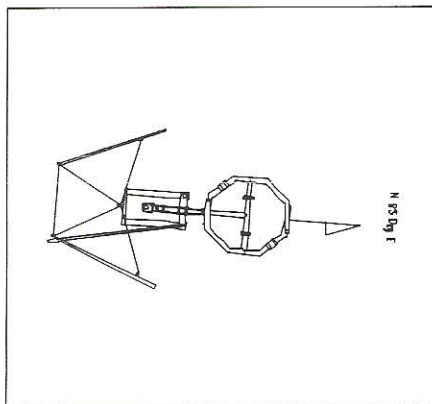
## MECHANICAL SPECIFICATIONS

Mounting:	Standard
System length:	14 ft
Aperture length required:	25 ft 4 in
Orientation:	95° true

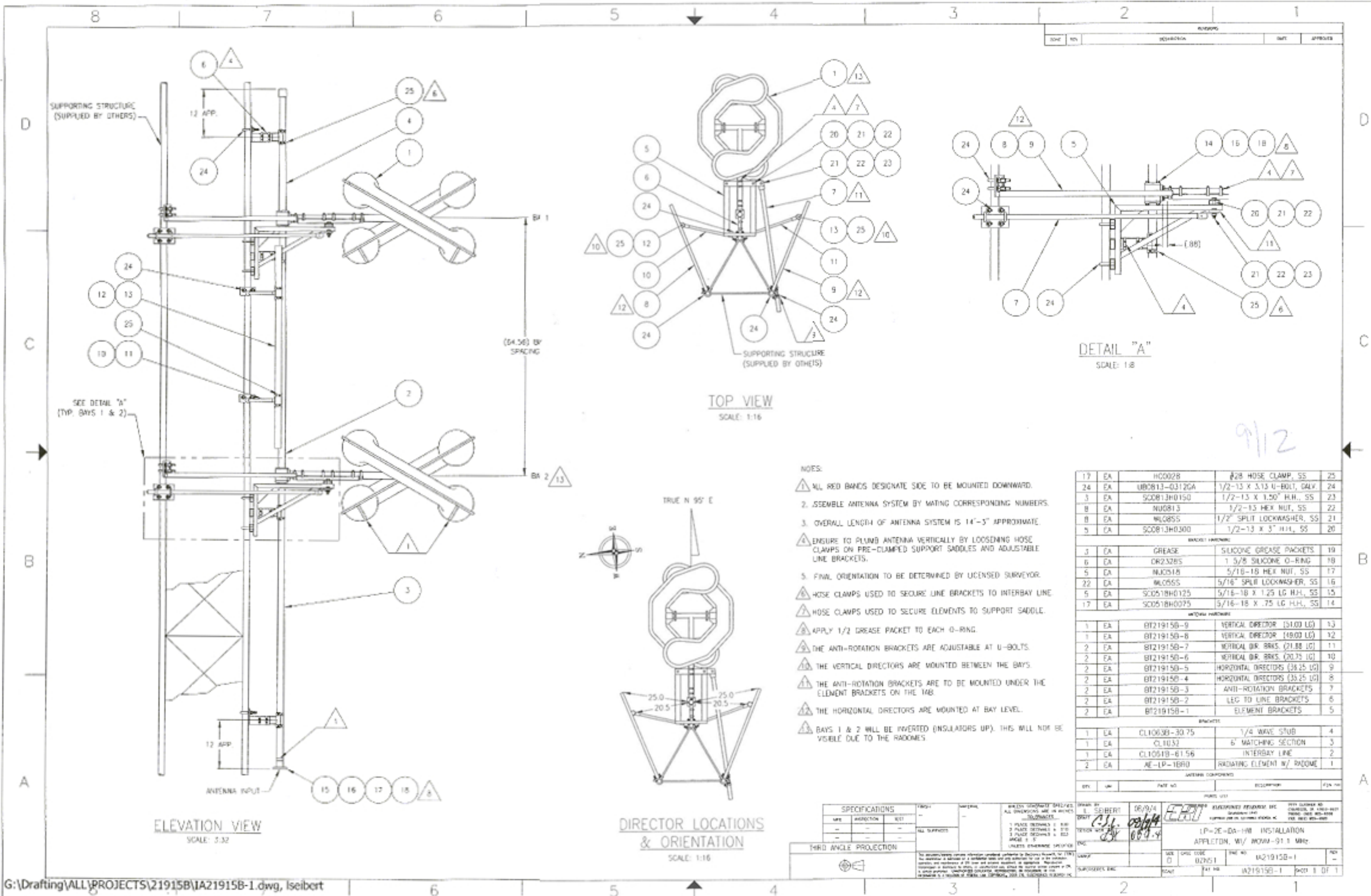
Input flange to the antenna 1 5/8" female.

## ELECTRICAL SPECIFICATIONS (For directional use)

Maximum horizontal ERP:	3.6 kW (5.563 dBk)
Horizontal maximum power gain:	1.023 (0.100 dB)
Maximum vertical ERP:	3.6 kW (5.563 dBk)
Vertical maximum power gain:	1.023 (0.100 dB)
Total input power:	3.519 kW (5.464 dBk)







## DECLARATION

I, David M. Schmalz, do declare as follows:

- 1) I am a licensed land surveyor in the State of Wisconsin.
- 2) I have provided professional surveying services to Music that Matters Inc., WOVM Radio, Appleton (c/o Andy Disterhaft at Skyscape Communications), during the installation of a directional antenna at 2727 Warehouse Road, City of Appleton, Outagamie County, Wisconsin.
- 3) I hereby certify that the directional antenna has been oriented to an azimuth of 95 degrees from True North, within a tolerance of  $\pm 0.5^\circ$  to the best of my knowledge and belief.

  
David M. Schmalz, V.P. Land Surveyor  
McMahon

11-20-2008  
Dated




# ENGINEERING AFFIDAVIT

State of Wisconsin       )  
                                      )  
County of Winnebago     )

I, Andrew J. Disterhaft, being duly sworn, depose and state that I am a qualified and experienced Communications Consultant whose work is a matter of record with the Federal Communications Commission. I have experience over many years in the installation of FM broadcast antennas, both directional and non-directional. I personally supervised the installation of the ERI LP-2E-DA-HW two bay directional antenna for WOVM. The antenna, including all parasitic elements, was installed in compliance with the drawings supplied by the antenna manufacturer detailing the configuration which was utilized in the pattern modeling.

  
\_\_\_\_\_  
Andrew J. Disterhaft

Subscribed and sworn to before me this 26<sup>th</sup> day of November, 2008.

  
\_\_\_\_\_  
Notary Public



*expires 8/7/11*