

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

EXHIBIT E-1

**ENGINEERING STATEMENT RE:
APPLICATION FOR STATION LICENSE
RADIO STATION KZWV
CHANNEL 270C2 (DA), 43 KW ERP, 161 MTRS AAT
ELDON, MISSOURI
FILE NO.: BNPH-20060214ACR
FAC ID: 165951**

OCTOBER, 2006

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SELLMEYER ENGINEERING
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**ENGINEERING STATEMENT RE:
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FILE NO.: BNPH-20060214ACR
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INTRODUCTION

This Engineering Statement has been prepared on behalf of Randall C. Wright, permittee of station KZWV, Eldon, Missouri. Construction of the facilities authorized in construction permit BNPH-20060214ACR has been completed in accordance with the terms and conditions of the instant permit. Equipment tests have been completed and the station facilities adjusted for operation at 50% of the authorized power (21.5 KW ERP). The station will begin operation under terms of section 73.1620(2) after filing of the instant Form 302-FM application.

MAIN STUDIO

The main studio is located at:

1081 Osage Beach Road
Osage Beach, Missouri 65065
Telephone: 573-746-7873

The studio is located within the 70 dBu contour of the station.

COMPLIANCE WITH CONDITIONS

The permittee is in compliance with all conditions imposed on the construction permit. Evidence of compliance is detailed as noted below:

- 1: Allotment: channel 270C2 is accepted by the applicant. Facilities have been constructed in accordance with the permit.
- 2: The applicant accepts the grant under Section 73.215 of the Rules with respect to the Cuba, Missouri channel 271A construction permit, file number BNPH-20060309AAZ.

3: Randall Wright accepts the conditions concerning protection of workers on the tower and will reduce power or suspend operations when workers would be exposed to radiofrequency radiation in excess of those noted in OET Bulletin 65.

4: Directional Antenna Proof of Performance:

The proof of performance showing measured data on the Electronics Research model MP-8AC-DA-HW, one half wavelength spaced eight element directional antenna appears herein as Exhibit E1-1. The measurements were conducted on a tower section identical to that on which the directional antenna is installed.

5: Certification of Licensed Surveyor:

The certification of Gerard J. Harms a licensed surveyor in the State of Missouri, is attached. Mr. Harms initially laid out flags along the bearing specified in the Proof of Performance to allow proper alignment of the elements and, following installation of the antenna elements and parasitic elements, verified the correct alignment of the elements. The statement appears herein as Exhibit E1-2.

6: Affidavit of Engineer:

This statement attests to the proper installation of the antenna system. I personally inspected the installation of the antenna system and made all harmonic, spurious radiation and occupied bandwidth measurements in accordance with Section 73.317 of the Rules following adjustment of the transmitters. The transmission system of Station KZWV complies with the requirements of Section 73.317 of the Rules. A report documenting the results of the measurements will be placed in the station files for reference in the event of an inspection by representatives of the Commission.

My qualifications are on file and are known to the Commission having been accepted in many applications of this type.

7: Directional Antenna minima:

The specification of 31 KW ERP along the bearings between 95 and 100 degree True have been met as have the horizontal and vertical radiation limits with respect to the envelope pattern. All data concerning the directional antenna system appear in Exhibit E1-1.

CALCULATION OF TRANSMITTER POWER OUTPUT

ERP: 43.00 KW

GAIN: 3.541

ANT INPUT: 12.14 KW

LINE EFF: 0.858

TPO: **14.15 KW**

Transmission line: 465 feet Andrew HJ-8-50B: Efficiency = 85.8%

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

CERTIFICATION OF ENGINEER

I hereby state that:

I am President of Sellmeyer Engineering

The Firm of Sellmeyer Engineering has been retained by Randall C. Wright to prepare this Engineering Exhibit

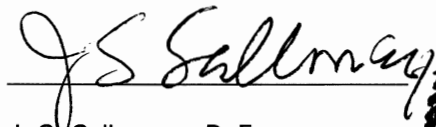
I am a graduate of Arizona State University with the degree of Bachelor of Science in Engineering

I am a Registered Professional Engineer in the States of Ohio and Texas

My qualifications as an Engineer are a matter of record with the Federal Communications Commission

This Engineering Exhibit was prepared by me personally or under my direct supervision, and

All facts stated herein are true and correct to the best of my knowledge and belief.



J. S. Sellmeyer, P. E.

October 2, 2006

P. O. Box 356
McKinney, Texas 75070
214-495-9764



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**ENGINEERING STATEMENT RE:
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CHANNEL 270C2 (DA), 43 KW ERP, 161 MTRS AAT
ELDON, MISSOURI
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EXHIBIT E-1
DIRECTIONAL ANTENNA PROOF OF PERFORMANCE

***Directional Antenna System
for
KZWV, Eldon, Missouri***

June 22, 2006

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 KZWV.

The antenna is the ERI model MP-8AC-DA-HW configuration. The circular polarized system consists of 8 half-wavelength spaced bays using one driven circular polarized radiating element per bay and four vertical parasitic elements interleaved between alternate bay pairs. The antenna was mounted on the North 87 degrees East tower leg with bracketry to provide an antenna orientation of North 107 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 101.9 megahertz, which is the center of the FM broadcast channel assigned to KZWV.

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 For KZWV, Eldon, Missouri

(Continued)

DESCRIPTION OF THE TEST PROCEDURE

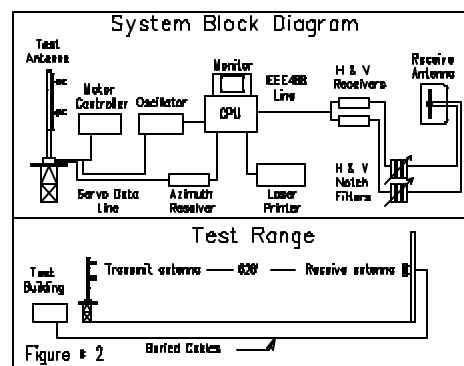
The test antenna consisted of two bay levels of the circular polarized system with the associated vertical parasitic elements. The elements and brackets that were used in this test are electrically equivalent to those that will be supplied with the antenna. A section of 3 1/8 inch o.d. rigid coaxial line was used to feed the test antenna, and a section of 3 1/8 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 North Atlantic Model 8500 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 calibrated 1-05. The frequency of the signal source was set at 101.9 MHz and was constantly monitored by an Anritsu Model ML521B measuring receiver calibrated 6-05.

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 For KZWV, Eldon, Missouri

(Continued)

The signals received by the dipole system were fed to the test building by way of two buried Heliax cables to an Anritsu Model ML521B measuring receiver. This data was interfaced to a Hewlett-Packard Laser Jet 4P printer by means of a Pentium 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 8 half-wavelength spaced bays using one driven circular polarized radiating element per bay and four vertical parasitic elements interleaved between alternate bay pairs. 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 MP-8AC-DA-HW array is to be mounted on the North 87 degrees East tower leg of the 24" Pi-Rod tower at a bearing of North 107 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 43 kilowatts (16.335 dBk).

The power at North 95-100 degrees East does not exceed 31 kilowatts (14.914 dBk).

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

Directional Antenna System
For
KZWV, Eldon, Missouri

(Continued)

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.

The clear vertical length of the structure required to support the antenna is 48 feet 8 inches.

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.

A handwritten signature in cursive script, appearing to read "Tom Schaefer".

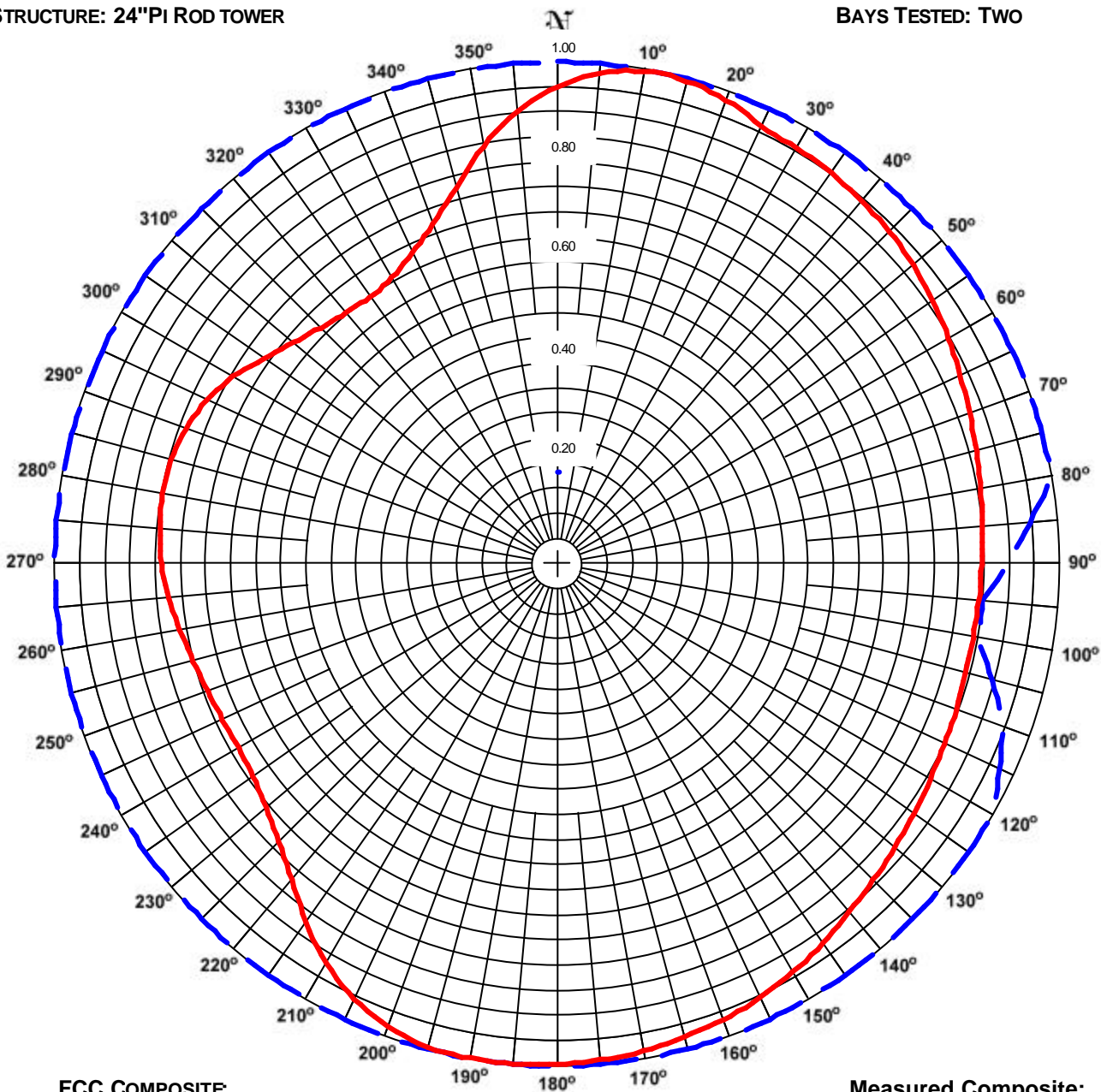
The Microsoft Word document on file electronically at Electronic Research, Inc. governs the specifications, scope, and configuration of the product described. All other representations whether verbal, printed, or electronic are subordinate to the master copy of this document on file at ERI.

ERI® *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: KZWV
LOCATION: ELDON, MO.
ANTENNA: MP-8AC-HW-DA
STRUCTURE: 24"PI ROD TOWER

DATE: 6/22/2006
FREQUENCY: 101.9 MHz
ORIENTATION: 107° TRUE
MOUNTING: CUSTOM
BAYS TESTED: TWO



FCC COMPOSITE
RMS: 0.992
MAXIMUM: 1.000 @ 0° TRUE
MINIMUM: 0.850 @ 95° TRUE

Measured Composite:
RMS: 0.863
Maximum: 1.000 @ 189° True
Minimum: 0.649 @ 325° True

COMMENTS: 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 BNPH-20060214ACR.

ERI[®] *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: KZWV
Location: Eldon, MO.
Frequency: 101.9 MHz

Antenna: MP-8AC-HW-DA
Orientation: 107° True
Tower: 24''Pi-Rod

Figure: 1
Date: 6/22/2006
Reference: kzwv1m.fig

Angle	Envelope			Polarization	Angle	Envelope			Polarization
	Field	kW	dBk			Field	kW	dBk	
0°	0.951	38.88	15.90	Horizontal	180°	0.996	42.70	16.30	Vertical
5°	0.981	41.40	16.17	Horizontal	185°	0.999	42.93	16.33	Vertical
10°	0.996	42.69	16.30	Horizontal	190°	1.000	42.96	16.33	Vertical
15°	0.996	42.64	16.30	Horizontal	195°	0.996	42.63	16.30	Horizontal
20°	0.983	41.59	16.19	Horizontal	200°	0.981	41.36	16.17	Horizontal
25°	0.961	39.70	15.99	Horizontal	205°	0.955	39.22	15.93	Horizontal
30°	0.956	39.28	15.94	Vertical	210°	0.919	36.29	15.60	Horizontal
35°	0.951	38.87	15.90	Vertical	215°	0.871	32.66	15.14	Horizontal
40°	0.944	38.32	15.83	Vertical	220°	0.822	29.08	14.64	Horizontal
45°	0.936	37.64	15.76	Vertical	225°	0.784	26.42	14.22	Horizontal
50°	0.925	36.82	15.66	Vertical	230°	0.756	24.57	13.90	Horizontal
55°	0.913	35.86	15.55	Vertical	235°	0.739	23.47	13.71	Horizontal
60°	0.899	34.79	15.41	Vertical	240°	0.732	23.06	13.63	Horizontal
65°	0.886	33.76	15.28	Vertical	245°	0.735	23.20	13.65	Horizontal
70°	0.874	32.87	15.17	Vertical	250°	0.740	23.56	13.72	Horizontal
75°	0.864	32.13	15.07	Vertical	255°	0.749	24.15	13.83	Horizontal
80°	0.856	31.53	14.99	Vertical	260°	0.762	24.98	13.98	Horizontal
85°	0.850	31.06	14.92	Vertical	265°	0.776	25.91	14.13	Horizontal
90°	0.845	30.73	14.88	Vertical	270°	0.787	26.63	14.25	Horizontal
95°	0.843	30.56	14.85	Horizontal	275°	0.794	27.11	14.33	Horizontal
100°	0.841	30.45	14.84	Vertical	280°	0.798	27.35	14.37	Horizontal
105°	0.843	30.53	14.85	Vertical	285°	0.796	27.26	14.35	Horizontal
110°	0.846	30.76	14.88	Vertical	290°	0.787	26.63	14.25	Horizontal
115°	0.851	31.13	14.93	Vertical	295°	0.770	25.49	14.06	Horizontal
120°	0.858	31.65	15.00	Vertical	300°	0.745	23.89	13.78	Horizontal
125°	0.867	32.32	15.09	Vertical	305°	0.714	21.90	13.40	Horizontal
130°	0.878	33.14	15.20	Vertical	310°	0.686	20.23	13.06	Horizontal
135°	0.891	34.12	15.33	Vertical	315°	0.666	19.07	12.80	Horizontal
140°	0.906	35.27	15.47	Vertical	320°	0.654	18.37	12.64	Horizontal
145°	0.922	36.59	15.63	Vertical	325°	0.649	18.11	12.58	Horizontal
150°	0.939	37.91	15.79	Vertical	330°	0.658	18.62	12.70	Horizontal
155°	0.953	39.09	15.92	Vertical	335°	0.682	20.02	13.01	Horizontal
160°	0.966	40.12	16.03	Vertical	340°	0.722	22.40	13.50	Horizontal
165°	0.977	41.00	16.13	Vertical	345°	0.776	25.92	14.14	Horizontal
170°	0.985	41.73	16.20	Vertical	350°	0.845	30.69	14.87	Horizontal
175°	0.992	42.30	16.26	Vertical	355°	0.905	35.25	15.47	Horizontal

Polarization:
Maximum Field:
Minimum Field:
RMS:
Maximum ERP:
Maximum Power Gain:

Envelope
1.000 @ 189° True
0.649 @ 325° True
0.863
43.000 kW
3.541 (5.492 dB)

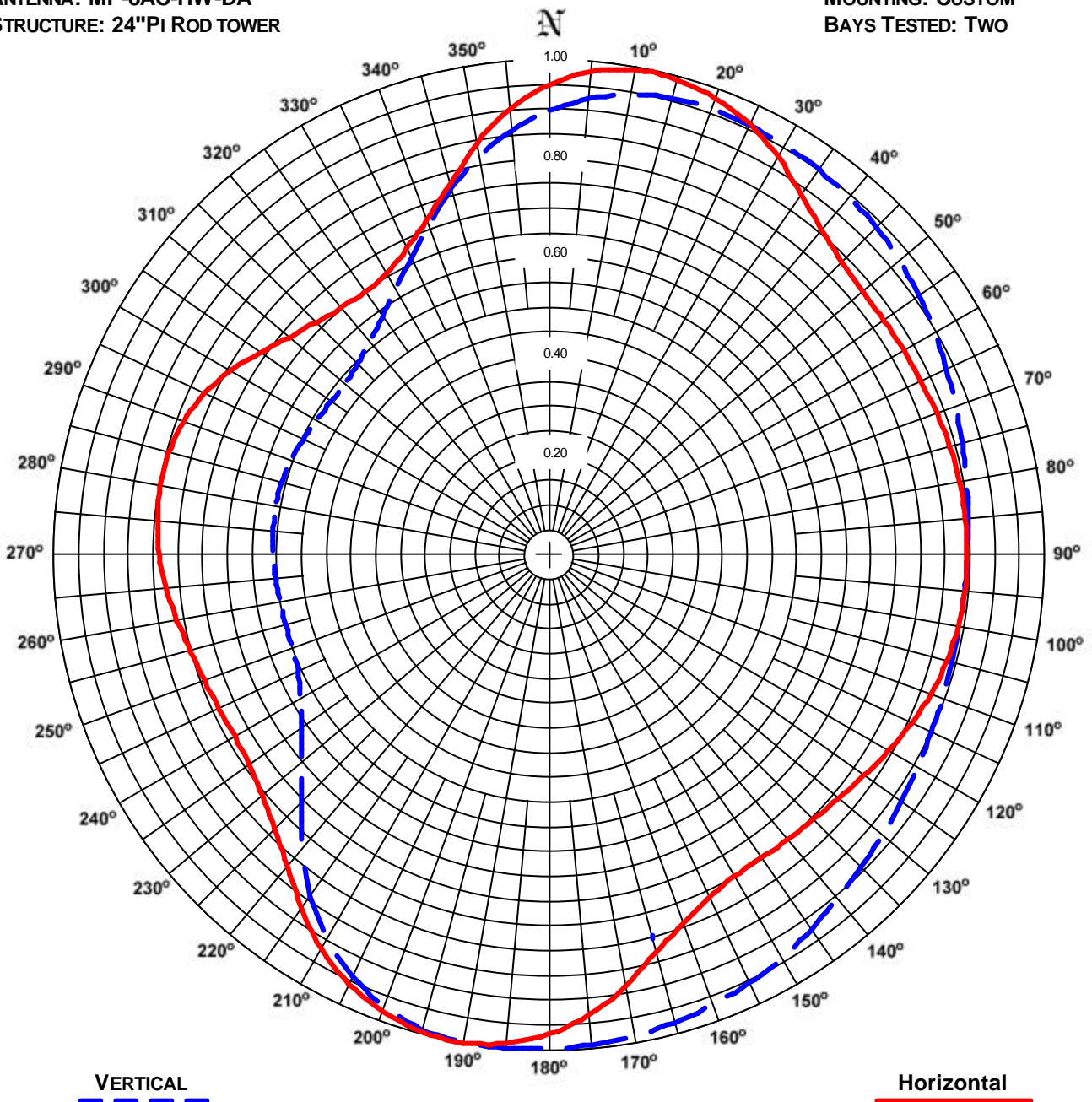
Total Input Power: 12.142 kW

ERI[®] 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: KZWV
LOCATION: ELDON, MO.
ANTENNA: MP-8AC-HW-DA
STRUCTURE: 24"PI ROD TOWER

DATE: 6/22/2006
FREQUENCY: 101.9 MHz
ORIENTATION: 107° TRUE
MOUNTING: CUSTOM
BAYS TESTED: TWO



VERTICAL
RMS: 0.816
MAXIMUM: 1.000 @ 189° TRUE
MINIMUM: 0.538 @ 308° TRUE

Horizontal
RMS: 0.828
Maximum: 1.000 @ 191° True
Minimum: 0.649 @ 325° True

COMMENTS: MEASURED PATTERNS OF THE HORIZONTAL AND VERTICAL COMPONENTS.

ERI[®] *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: KZWV
Location: Eldon, MO.
Frequency: 101.9 MHz

Antenna: MP-8AC-HW-DA
Orientation: 107° True
Tower: 24" Pi-Rod tower

Figure: 2
Date: 6/22/2006
Reference: kzwv1m.fig

Angle	Horizontal			Vertical			Angle	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.951	38.88	15.90	0.899	34.72	15.41	180°	0.967	40.19	16.04	0.996	42.70	16.30
5°	0.981	41.40	16.17	0.926	36.89	15.67	185°	0.989	42.10	16.24	0.999	42.93	16.33
10°	0.996	42.69	16.30	0.946	38.46	15.85	190°	0.999	42.96	16.33	1.000	42.96	16.33
15°	0.996	42.64	16.30	0.957	39.39	15.95	195°	0.996	42.63	16.30	0.990	42.18	16.25
20°	0.983	41.59	16.19	0.960	39.66	15.98	200°	0.981	41.36	16.17	0.970	40.46	16.07
25°	0.961	39.70	15.99	0.959	39.54	15.97	205°	0.955	39.22	15.93	0.938	37.86	15.78
30°	0.928	37.03	15.69	0.956	39.28	15.94	210°	0.919	36.29	15.60	0.895	34.46	15.37
35°	0.889	33.95	15.31	0.951	38.87	15.90	215°	0.871	32.66	15.14	0.841	30.39	14.83
40°	0.858	31.64	15.00	0.944	38.32	15.83	220°	0.822	29.08	14.64	0.775	25.82	14.12
45°	0.837	30.14	14.79	0.936	37.64	15.76	225°	0.784	26.42	14.22	0.709	21.62	13.35
50°	0.827	29.41	14.68	0.925	36.82	15.66	230°	0.756	24.57	13.90	0.655	18.43	12.65
55°	0.826	29.34	14.68	0.913	35.86	15.55	235°	0.739	23.47	13.71	0.612	16.08	12.06
60°	0.828	29.45	14.69	0.899	34.79	15.41	240°	0.732	23.06	13.63	0.580	14.45	11.60
65°	0.830	29.65	14.72	0.886	33.76	15.28	245°	0.735	23.20	13.65	0.559	13.45	11.29
70°	0.834	29.94	14.76	0.874	32.87	15.17	250°	0.740	23.56	13.72	0.550	13.02	11.15
75°	0.839	30.26	14.81	0.864	32.13	15.07	255°	0.749	24.15	13.83	0.550	13.02	11.15
80°	0.842	30.49	14.84	0.856	31.53	14.99	260°	0.762	24.98	13.98	0.552	13.09	11.17
85°	0.844	30.64	14.86	0.850	31.06	14.92	265°	0.776	25.91	14.13	0.554	13.21	11.21
90°	0.845	30.69	14.87	0.845	30.73	14.88	270°	0.787	26.63	14.25	0.557	13.36	11.26
95°	0.843	30.56	14.85	0.843	30.52	14.85	275°	0.794	27.11	14.33	0.560	13.47	11.29
100°	0.838	30.22	14.80	0.841	30.45	14.84	280°	0.798	27.35	14.37	0.561	13.52	11.31
105°	0.831	29.67	14.72	0.843	30.53	14.85	285°	0.796	27.26	14.35	0.560	13.49	11.30
110°	0.820	28.92	14.61	0.846	30.76	14.88	290°	0.787	26.63	14.25	0.556	13.31	11.24
115°	0.806	27.97	14.47	0.851	31.13	14.93	295°	0.770	25.49	14.06	0.550	12.99	11.14
120°	0.790	26.85	14.29	0.858	31.65	15.00	300°	0.745	23.89	13.78	0.543	12.67	11.03
125°	0.775	25.86	14.13	0.867	32.32	15.09	305°	0.714	21.90	13.40	0.539	12.50	10.97
130°	0.764	25.08	13.99	0.878	33.14	15.20	310°	0.686	20.23	13.06	0.539	12.51	10.97
135°	0.755	24.50	13.89	0.891	34.12	15.33	315°	0.666	19.07	12.80	0.548	12.89	11.10
140°	0.749	24.12	13.82	0.906	35.27	15.47	320°	0.654	18.37	12.64	0.564	13.67	11.36
145°	0.746	23.93	13.79	0.922	36.59	15.63	325°	0.649	18.11	12.58	0.588	14.88	11.73
150°	0.749	24.10	13.82	0.939	37.91	15.79	330°	0.658	18.62	12.70	0.621	16.57	12.19
155°	0.764	25.08	13.99	0.953	39.09	15.92	335°	0.682	20.02	13.01	0.662	18.82	12.75
160°	0.791	26.93	14.30	0.966	40.12	16.03	340°	0.722	22.40	13.50	0.710	21.70	13.36
165°	0.832	29.74	14.73	0.977	41.00	16.13	345°	0.776	25.92	14.14	0.767	25.27	14.03
170°	0.884	33.59	15.26	0.985	41.73	16.20	350°	0.845	30.69	14.87	0.819	28.82	14.60
175°	0.932	37.32	15.72	0.992	42.30	16.26	355°	0.905	35.25	15.47	0.863	32.00	15.05

Polarization:	Horizontal	Vertical
Maximum Field:	1.000 @ 191° True	1.000 @ 189° True
Minimum Field:	0.649 @ 325° True	0.538 @ 308° True
RMS:	0.828	0.816
Maximum ERP:	43.000 kW	43.000 kW
Maximum Power Gain:	3.541 (5.492 dB)	3.541 (5.492 dB)

Total Input Power: 12.142 kW



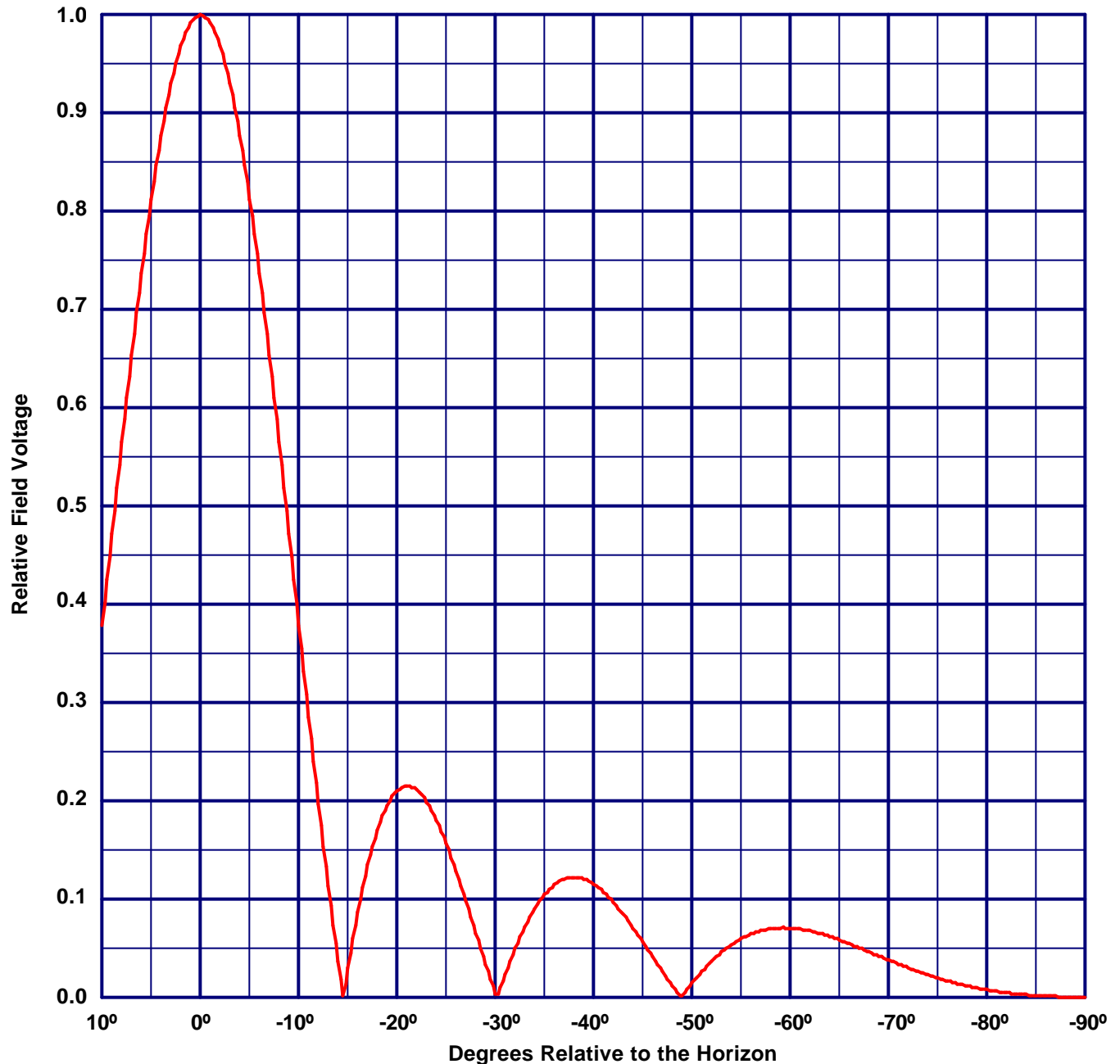
Vertical Plane Relative Field Pattern

KZWV, Eldon, Mo., 101.9 MHz

Figure#: 3

Date: 6/22/2006

**An 8 level, .5 wave-length spaced MP-8AC-HW-DA directional antenna
with 0° beam tilt, 0% null fill and a H/V maximum power ratio of 1.000**



Vertical Polarization Gain:

Maximum: 3.541 (5.492 dB)

Horizontal Plane: 3.541 (5.492 dB)

Horizontal Polarization Gain:

Maximum: 3.541 (5.492 dB)

Horizontal Plane: 3.541 (5.492 dB)

Directional Antenna System for KZWV, Eldon, Missouri

(Continued)

ANTENNA SPECIFICATIONS

Antenna Type:	MP-8AC-DA-HW
Frequency:	101.9
Number of Bays:	eight

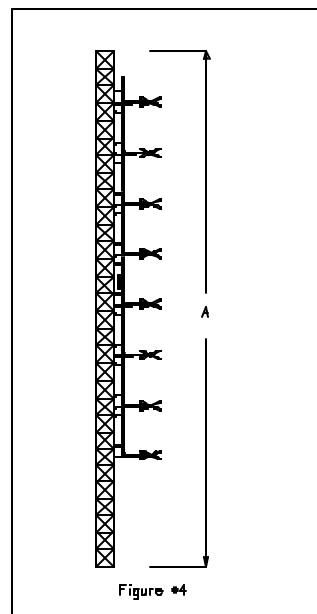
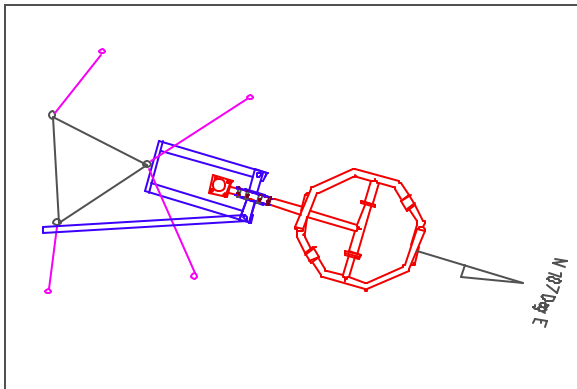
MECHANICAL SPECIFICATIONS

Mounting:	Custom
System length:	37 ft 4 in
Aperture length required:	48 ft 8 in
Orientation:	107° true
Input flange to the antenna inch female	

ELECTRICAL SPECIFICATIONS

(For directional use)

Maximum horizontal ERP:	43 kW (16.335 dBk)
Horizontal maximum power gain:	3.541 (5.492 dB)
Maximum vertical ERP:	43 kW (16.335 dBk)
Vertical maximum power gain:	3.541 (5.492 dB)
Total input power:	12.142 kW (10.843 dBk)



SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

**ENGINEERING STATEMENT RE:
APPLICATION FOR STATION LICENSE
RADIO STATION KZWV
CHANNEL 270C2 (DA), 43 KW ERP, 161 MTRS AAT
ELDON, MISSOURI
FILE NO.: BNPH-20060214ACR
FAC ID: 165951**

**EXHIBIT E-2
SURVEYOR'S CERTIFICATION**



August 25, 2006

**missouri registered
ARCHITECTS
ENGINEERS
LAND SURVEYORS**

Gerard J. Harms, Sr. PE, PLS
Daniel R. Mills, AIA, PE
Jason J. Muller, PE
Dennis A. Carroll, Assoc. AIA

*Rice Engineering &
Wright Communications, LLLP
3271 S. Country Woods
Columbia, MO 65023*

*RE: Antenna Orientation
Wright Antenna Orientation
Radio Tower
NE 1/4, SE 1/4, Section 28, T 41N, R 15W
Miller County, MO
OJN: 06-203 S2*

Dear Sir:

This is to certify that on August 23, 2003, that I, Gerard J. Harms, Sr., P.E., P.L.S., made a survey to verify the orientation of element headings of the antenna installed on the above referenced tower and found the heading to be 107.0° East of True North.

Very Truly Yours


Gerard J. Harms, Sr., P.E., P.L.S.



GJH:ab

HARMS, INC.

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