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

Directional Antenna System for WVVE, Panama City Beach, Florida

August 8, 2003

Electronics Research Inc. is providing a custom fabricated diplexed directional antenna system that is specially designed to meet the FCC requirements and the general needs of radio stations WVVE and WYOO.

The antenna is the ERI model MP-3E-DA-HW-SP configuration. The circular polarized system consists of 3 half-wavelength spaced bays using one driven circular polarized radiating element per bay, two horizontal parasitic elements per bay and two vertical parasitic elements per bay. The antenna was mounted on the North 60 degrees East tower leg with bracketry to provide an antenna orientation of North 30 degrees East. The antenna was tested on a 30" face tower, which is the structure the station plans to use to support the array. All tests were performed on a frequency of 100.1 megahertz, which is the center of the FM broadcast channel assigned to WVVE.

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.

EXHIBIT B
APPLICATION FOR STATION LICENSE
STYLES MEDIA GROUP, LLC
WVVE (FM) RADIO STATION
CH 261C3 - 100.1 MHZ - 12.0 KW
PANAMA CITY BEACH, FLORIDA
October 2003

Directional Antenna System
For
WVVE, Panama City Beach, Florida

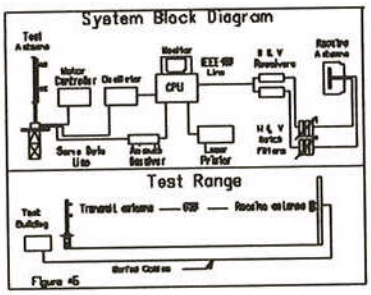
(Continued)

DESCRIPTION OF THE TEST PROCEDURE

The test antenna consisted of two bay levels of the 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 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 30" face 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 azimuth indicating mechanism, resolution of this azimuth measuring device is one-tenth of a degree.



The antenna under test was operated in the transmitting mode and fed from a Wavetek Model 3000 signal generator. The frequency of the signal source was set at 100.1 MHz and was constantly monitored by an Anritsu Model ML521B measuring receiver.

A broad-band 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. 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 3 half-wavelength spaced bays using one driven circular polarized radiating element per bay, two horizontal parasitic elements per bay and two vertical parasitic elements per bay. The directional antenna will incorporate –0.53° of beam tilt and 0% 1st Null fill. 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-3E-DA-HW-SP array is to be mounted on the North 60 degrees East tower leg of the 30" face tower at a bearing of North 30 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 12 kilowatts (10.792 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 that 85% of the filed composite pattern.

Directional Antenna System
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(Continued)

The clear vertical length of the structure required to support the antenna is 24 ft 9in 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.

ERI® Horizontal Plane Relative Field Pattern

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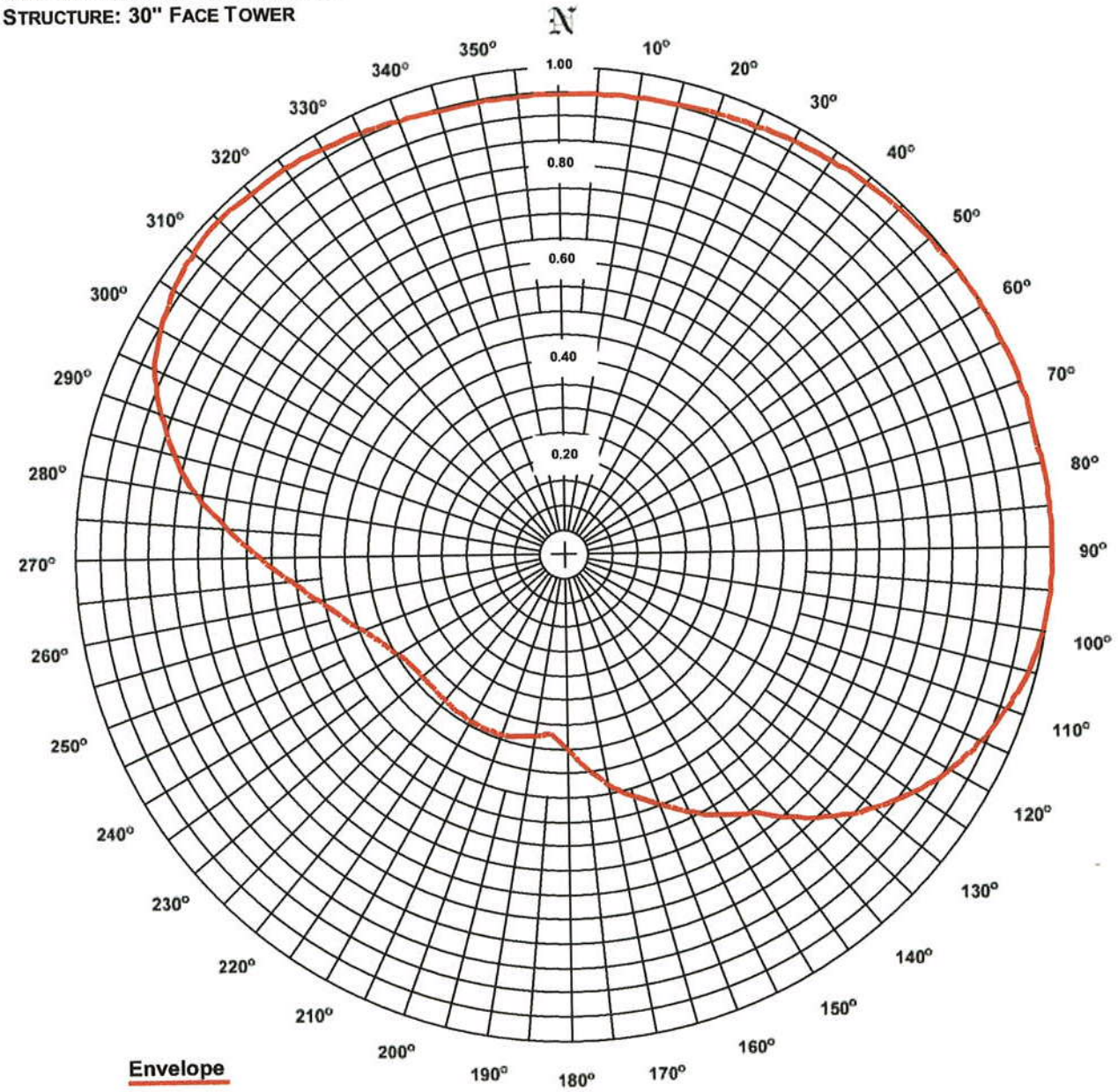
FIGURE: 1
STATION: WVVE
LOCATION: PANAMA CITY BEACH, FL
ANTENNA TYPE: MP-3E-DA-HW-SP
STRUCTURE: 30" FACE TOWER

DATE: 8/7/03
FREQUENCY: 100.1 MHz
ORIENTATION: 30° TRUE
MOUNTING: CUSTOM



Envelope

RMS: 0.804
Maximum: 1.000 @ 70° True
Minimum: 0.370 @ 185° True

COMMENTS: COMPOSITE PATTERN: THIS PATTERN SHOWS THE MAXIMUM OF EITHER THE H OR V AZIMUTH VALUES. THIS PATTERN DOES NOT EXCEED THE FCC FILED COMPOSITE PATTERN AT ANY AZIMUTH. THE RMS OF THIS PATTERN IS GREATER THAN 85% OF THE FILED FCC COMPOSITE PATTERN.

ERI® Horizontal Plane Relative Field List

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Station: WVVE
Location: Panama City Beach, FL
Frequency: 100.1 MHz

Antenna: MP-3E-DA-HW-SP
Orientation: 30° True
Tower: 30" Face Tower

Figure: 1
Date: 8/7/03
Reference: wvve1m.fig

Angle	Envelope			Polarization	Angle	Envelope			Polarization
	Field	kW	dBk			Field	kW	dBk	
0°	0.945	10.72	10.30	Horizontal	180°	0.403	1.95	2.90	Horizontal
5°	0.947	10.77	10.32	Horizontal	185°	0.370	1.64	2.15	Horizontal
10°	0.950	10.83	10.35	Horizontal	190°	0.377	1.71	2.33	Vertical
15°	0.954	10.92	10.38	Horizontal	195°	0.386	1.79	2.52	Vertical
20°	0.959	11.03	10.42	Horizontal	200°	0.391	1.84	2.65	Vertical
25°	0.964	11.15	10.47	Horizontal	205°	0.394	1.86	2.69	Vertical
30°	0.971	11.30	10.53	Horizontal	210°	0.393	1.85	2.67	Vertical
35°	0.977	11.46	10.59	Horizontal	215°	0.391	1.83	2.63	Vertical
40°	0.983	11.60	10.65	Horizontal	220°	0.387	1.80	2.56	Vertical
45°	0.988	11.72	10.69	Horizontal	225°	0.385	1.78	2.51	Vertical
50°	0.992	11.82	10.73	Horizontal	230°	0.385	1.77	2.49	Vertical
55°	0.996	11.90	10.75	Horizontal	235°	0.389	1.81	2.58	Vertical
60°	0.998	11.95	10.77	Horizontal	240°	0.400	1.92	2.83	Vertical
65°	0.999	11.99	10.79	Horizontal	245°	0.418	2.09	3.21	Vertical
70°	1.000	12.00	10.79	Horizontal	250°	0.443	2.35	3.71	Vertical
75°	0.998	11.95	10.77	Horizontal	255°	0.474	2.70	4.31	Vertical
80°	0.998	11.94	10.77	Vertical	260°	0.513	3.16	4.99	Vertical
85°	1.000	11.99	10.79	Vertical	265°	0.563	3.81	5.80	Horizontal
90°	1.000	12.00	10.79	Vertical	270°	0.624	4.68	6.70	Horizontal
95°	1.000	11.99	10.79	Vertical	275°	0.692	5.75	7.59	Horizontal
100°	0.994	11.87	10.74	Vertical	280°	0.765	7.03	8.47	Horizontal
105°	0.982	11.58	10.64	Vertical	285°	0.825	8.17	9.12	Horizontal
110°	0.964	11.15	10.47	Vertical	290°	0.876	9.20	9.64	Vertical
115°	0.939	10.57	10.24	Vertical	295°	0.919	10.14	10.06	Vertical
120°	0.907	9.86	9.94	Vertical	300°	0.947	10.77	10.32	Vertical
125°	0.868	9.04	9.56	Vertical	305°	0.967	11.21	10.50	Horizontal
130°	0.823	8.12	9.10	Vertical	310°	0.979	11.51	10.61	Horizontal
135°	0.771	7.13	8.53	Vertical	315°	0.983	11.59	10.64	Horizontal
140°	0.712	6.09	7.85	Vertical	320°	0.981	11.54	10.62	Horizontal
145°	0.654	5.14	7.11	Horizontal	325°	0.976	11.44	10.58	Horizontal
150°	0.623	4.65	6.68	Horizontal	330°	0.969	11.27	10.52	Horizontal
155°	0.585	4.11	6.14	Horizontal	335°	0.960	11.05	10.43	Horizontal
160°	0.550	3.62	5.59	Horizontal	340°	0.952	10.88	10.36	Horizontal
165°	0.516	3.19	5.04	Horizontal	345°	0.947	10.76	10.32	Horizontal
170°	0.481	2.78	4.44	Horizontal	350°	0.944	10.70	10.29	Horizontal
175°	0.441	2.34	3.69	Horizontal	355°	0.944	10.70	10.29	Horizontal

Polarization: **Envelope**
Maximum Field: **1.000 @ 70° True**
Minimum Field: **0.370 @ 185° True**
RMS: **0.804**
Maximum ERP: **12.000 kW**
Maximum Power Gain: **1.548 (1.897 dB)**
Horizontal Plane Gain: **1.547 (1.894 dB)**

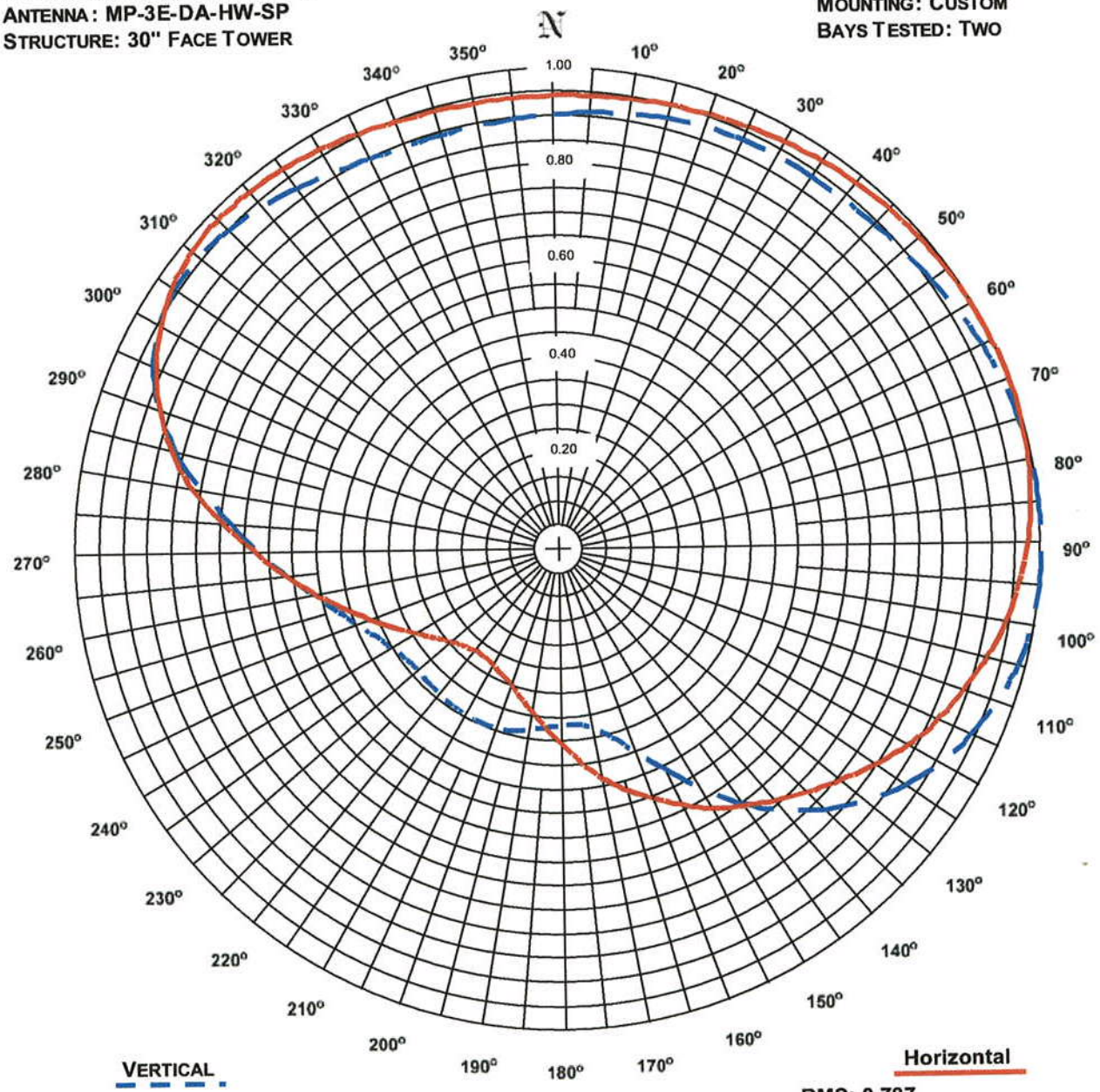
Total Input Power: 7.753 kW

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: WVVE
LOCATION: PANAMA CITY BEACH, FL
ANTENNA: MP-3E-DA-HW-SP
STRUCTURE: 30" FACE TOWER

DATE: 8/7/03
FREQUENCY: 100.1 MHz
ORIENTATION: 30° TRUE
MOUNTING: CUSTOM
BAYS TESTED: TWO



VERTICAL

RMS: 0.783
MAXIMUM: 1.000 @ 87° TRUE
MINIMUM: 0.363 @ 176° TRUE

Horizontal

RMS: 0.787
Maximum: 1.000 @ 70° True
Minimum: 0.269 @ 217° True

COMMENTS: MEASURED PATTERNS OF THE HORIZONTAL AND VERTICAL COMPONENTS.

ERI® Horizontal Plane Relative Field List

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Station: WVVE
Location: Panama City Beach, FL
Frequency: 100.1 MHz

Antenna: MP-3E-DA-HW-SP
Orientation: 30° True
Tower: 30" Face Tower

Figure: 2
Date: 8/7/03
Reference: wvve1m.fig

Angle	Horizontal			Vertical			Angle	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.945	10.72	10.30	0.906	9.84	9.93	180°	0.403	1.95	2.90	0.364	1.59	2.02
5°	0.947	10.77	10.32	0.912	9.97	9.99	185°	0.370	1.64	2.15	0.369	1.64	2.14
10°	0.950	10.83	10.35	0.919	10.14	10.06	190°	0.341	1.40	1.45	0.377	1.71	2.33
15°	0.954	10.92	10.38	0.926	10.29	10.13	195°	0.317	1.21	0.82	0.386	1.79	2.52
20°	0.959	11.03	10.42	0.931	10.41	10.18	200°	0.298	1.07	0.28	0.391	1.84	2.65
25°	0.964	11.15	10.47	0.935	10.50	10.21	205°	0.284	0.97	-0.14	0.394	1.86	2.69
30°	0.971	11.30	10.53	0.937	10.54	10.23	210°	0.274	0.90	-0.44	0.393	1.85	2.67
35°	0.977	11.46	10.59	0.938	10.56	10.24	215°	0.270	0.87	-0.59	0.391	1.83	2.63
40°	0.983	11.60	10.65	0.940	10.60	10.25	220°	0.271	0.88	-0.56	0.387	1.80	2.56
45°	0.988	11.72	10.69	0.944	10.68	10.29	225°	0.278	0.93	-0.32	0.385	1.78	2.51
50°	0.992	11.82	10.73	0.950	10.82	10.34	230°	0.292	1.02	0.10	0.385	1.77	2.49
55°	0.996	11.90	10.75	0.958	11.01	10.42	235°	0.312	1.17	0.68	0.389	1.81	2.58
60°	0.998	11.95	10.77	0.968	11.24	10.51	240°	0.339	1.38	1.39	0.400	1.92	2.83
65°	0.999	11.99	10.79	0.978	11.49	10.60	245°	0.372	1.66	2.19	0.418	2.09	3.21
70°	1.000	12.00	10.79	0.987	11.69	10.68	250°	0.411	2.02	3.06	0.443	2.35	3.71
75°	0.998	11.95	10.77	0.993	11.84	10.73	255°	0.456	2.50	3.98	0.474	2.70	4.31
80°	0.993	11.83	10.73	0.998	11.94	10.77	260°	0.508	3.10	4.91	0.513	3.16	4.99
85°	0.984	11.62	10.65	1.000	11.99	10.79	265°	0.563	3.81	5.80	0.562	3.79	5.79
90°	0.972	11.34	10.55	1.000	12.00	10.79	270°	0.624	4.68	6.70	0.617	4.56	6.59
95°	0.957	10.99	10.41	1.000	11.99	10.79	275°	0.692	5.75	7.59	0.676	5.49	7.39
100°	0.938	10.57	10.24	0.994	11.87	10.74	280°	0.765	7.03	8.47	0.743	6.63	8.21
105°	0.916	10.08	10.03	0.982	11.58	10.64	285°	0.825	8.17	9.12	0.816	8.00	9.03
110°	0.891	9.53	9.79	0.964	11.15	10.47	290°	0.874	9.17	9.62	0.876	9.20	9.64
115°	0.863	8.93	9.51	0.939	10.57	10.24	295°	0.914	10.03	10.01	0.919	10.14	10.06
120°	0.830	8.27	9.18	0.907	9.86	9.94	300°	0.945	10.71	10.30	0.947	10.77	10.32
125°	0.792	7.53	8.77	0.868	9.04	9.56	305°	0.967	11.21	10.50	0.960	11.06	10.44
130°	0.755	6.84	8.35	0.823	8.12	9.10	310°	0.979	11.51	10.61	0.959	11.03	10.43
135°	0.720	6.22	7.94	0.771	7.13	8.53	315°	0.983	11.59	10.64	0.953	10.89	10.37
140°	0.686	5.65	7.52	0.712	6.09	7.85	320°	0.981	11.54	10.62	0.942	10.64	10.27
145°	0.654	5.14	7.11	0.647	5.03	7.01	325°	0.976	11.44	10.58	0.927	10.30	10.13
150°	0.623	4.65	6.68	0.575	3.97	5.99	330°	0.969	11.27	10.52	0.912	9.99	9.99
155°	0.585	4.11	6.14	0.503	3.03	4.82	335°	0.960	11.05	10.43	0.902	9.77	9.90
160°	0.550	3.62	5.59	0.445	2.38	3.77	340°	0.952	10.88	10.36	0.897	9.66	9.85
165°	0.516	3.19	5.04	0.403	1.95	2.90	345°	0.947	10.76	10.32	0.896	9.64	9.84
170°	0.481	2.78	4.44	0.376	1.69	2.29	350°	0.944	10.70	10.29	0.898	9.67	9.85
175°	0.441	2.34	3.69	0.364	1.59	2.01	355°	0.944	10.70	10.29	0.901	9.74	9.88

Polarization:	**Horizontal**	**Vertical**
Maximum Field:	**1.000 @ 70° True**	**1.000 @ 87° True**
Minimum Field:	**0.269 @ 217° True**	**0.363 @ 176° True**
RMS:	**0.787**	**0.783**
Maximum ERP:	**12.000 kW**	**12.000 kW**
Maximum Power Gain:	**1.548 (1.897 dB)**	**1.548 (1.897 dB)**
Horizontal Plane Gain:	**1.547 (1.894 dB)**	**1.547 (1.894 dB)**

Total Input Power: 7.753 kW

ELECTRONICS RESEARCH, INC.
7777 GARDNER ROAD
CHANDLER, IN. 47610

FIGURE 3

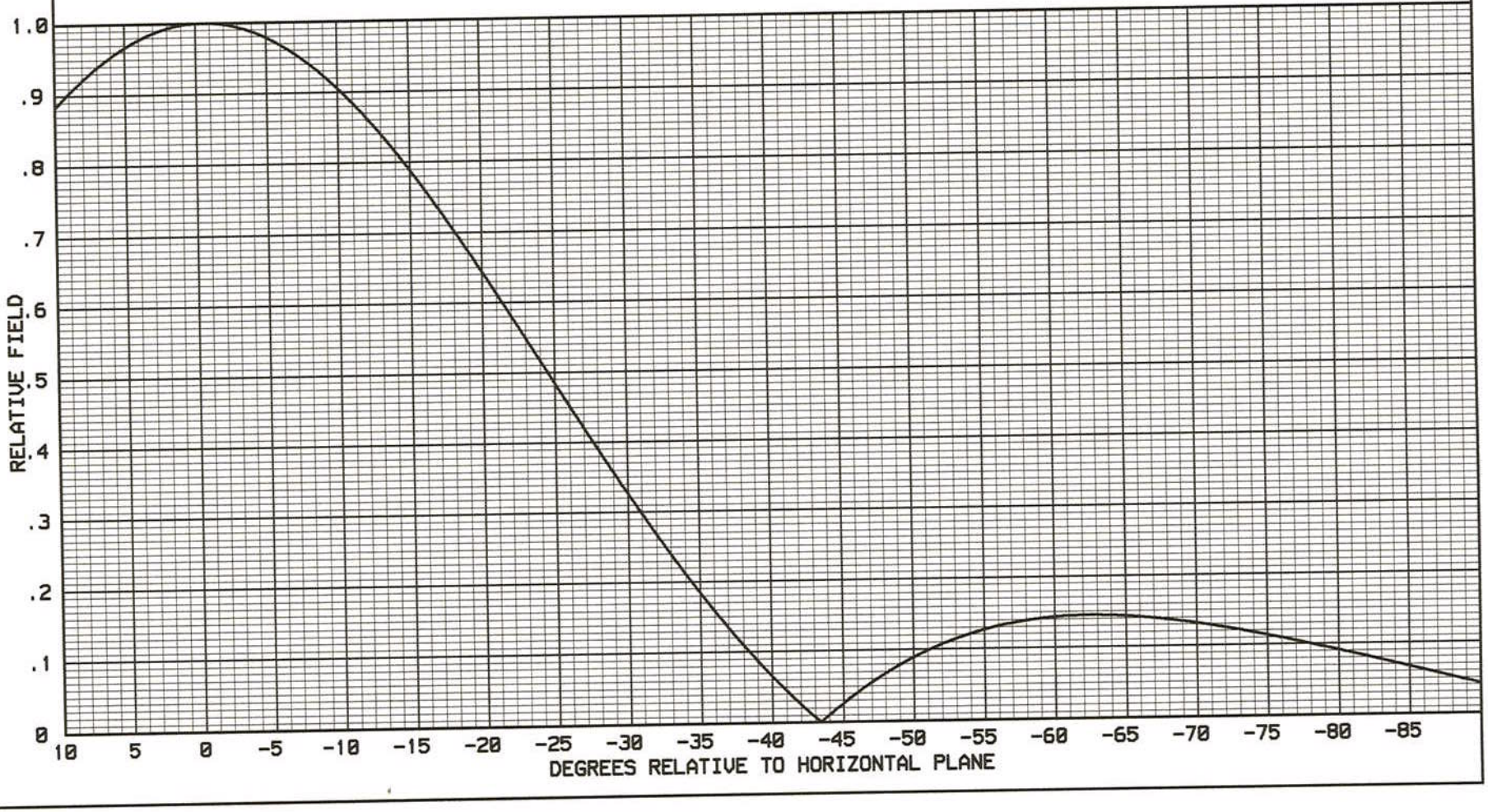
----THEORETICAL----
VERTICAL PLANE RELATIVE FIELD

TYPE MP-3E-DA-HW-SP DIRECTIONAL ANTENNA
-.53 DEGREE(S) ELECTRICAL BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL

MAY 16, 2003

100.1 MHz.

ELEMENT SPACING:
58.125 INCHES



Directional Antenna System
for
WVVE, Panama City Beach, Florida

(Continued)

ANTENNA SPECIFICATIONS

Antenna Type:	MP-3E-DA-HW-SP
Frequency:	100.1 MHz
Number of Bays:	3

MECHANICAL SPECIFICATIONS

Mounting:	Custom
System length:	18 ft 2in
Aperture length required:	24 ft 9in
Orientation:	30° true

Input flange to the antenna 3 1/8 inch female

ELECTRICAL SPECIFICATIONS

(With –0.53° Beam Tilt
0% Fist Null fill)

Maximum horizontal ERP:	12 kW (10.792 dBk)
Horizontal polarization maximum power gain:	1.548 (1.897 dB)
Horizontal polarization horizontal plane gain:	1.547 (1.894 dB)
Maximum vertical ERP:	12 kW (10.792 dBk)
Vertical polarization maximum power gain:	1.548 (1.897 dB)
Vertical polarization horizontal plane gain:	1.547 (1.894 dB)
Total input power:	7.753 kW (8.895 dBk)

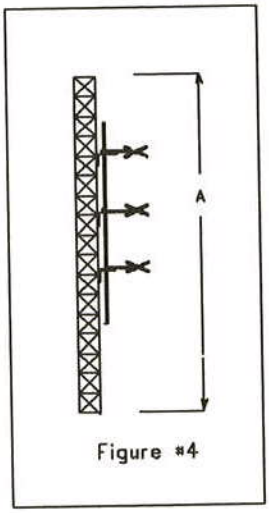


Figure #4