

ENGINEERING STATEMENT RE
APPLICATION FOR LICENSE FOR
NEW FM STATION AUTHORIZED BY
CONSTRUCTION PERMIT (FCC FILE NO. BMPH-20090123ACV)
WZDB(FM), SYKESVILLE, PENNSYLVANIA
CHANNEL 240 1.5 KW MAX (H&V) ERP 196 METERS HAAT

APRIL 2009

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

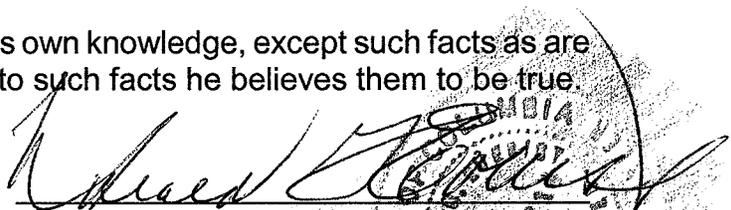
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

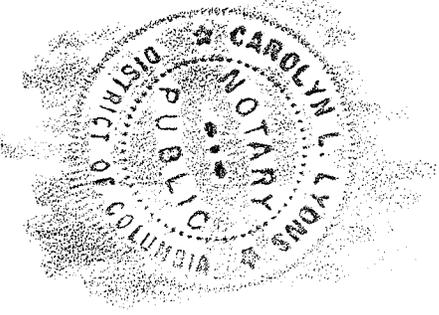
That his qualifications are a matter of record in the Federal Communications Commission;

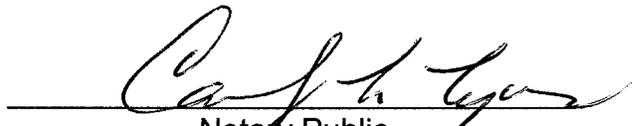
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.


Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 17th day of April, 2009.




Notary Public

My Commission Expires: 2/28/2013

Introduction

This engineering report has been prepared on behalf of First Media Radio, LLC, permittee of FM broadcast station WZDB(FM), licensed to Sykesville, Pennsylvania, in support of an application for license to operate on Channel 240 (95.9 MHz).

This application for license requests the facilities authorized in the outstanding construction permit (FCC File No. BMPH-20090123ACV).

Transmitter Site

The geographic coordinates (NAD-27) of the tower site are as follows:

North Latitude: 41° 02' 44.1"

West Longitude: 78° 42' 11.8"

Antenna Structure Registration No. 1265524

Elevation Data

Elevation of the site above mean sea level	625.8 meters (2053 feet)
Elevation of the top of supporting structure above ground	86.9 meters (285 feet)
Elevation of the top of supporting structure above mean sea level	712.7 meters (2338 feet)
Height of antenna radiation center meters above ground	83.8 meters (275 feet)
Height of antenna radiation center above mean sea level	709.6 meters (2328 feet)
Height of antenna radiation center above average terrain	196 meters

Antenna Data

Antenna Make & Model ERI, Type LP-2E-DA-HW, half-wave spaced antenna.
See Exhibit E-1 for the antenna manufacturer elevation
data

Power Data

Transmitter power output	1.933 kW	2.862 dBk
Transmission Line Efficiency/loss Andrew, Helix HJ7-50A, 1-5/8" air dielectric--length 126.5 meters (415 feet)	82.6%	0.830 dB
Antenna Input Power	1.597 kW	2.032 dBk
Antenna Power Gain	0.940 (H&V)	-0.270 dB
Maximum Effective Radiated Power	1.50 kW (H&V)	1.76 dBk

Special Operating Condition

Exhibit E-1 is a complete proof-of-performance demonstrating the horizontal and vertical plane field components. The test procedure consisted of a full scale model of the complete circular polarized system of the two half-wave antenna bays. All tests were performed by the antenna manufacturer and are included in Exhibit E-1. As demonstrated in the antenna proof-of-performance, the maximum radiated power in any direction and polarization is 1.5 kW. Further, the measured effective radiated power does not exceed 0.45 kW in the arc N 10° E and N 20° E, T. As noted by ERI, the RMS of the measured vertical plane pattern does not exceed the RMS of the measured horizontal plane pattern.

Further, the composite pattern of the measured pattern is greater than 85% of the authorized composite pattern.

Exhibit E-2 provides Mr. Lional Alexander, PLS's affidavit of his surveyor's certification required by the construction permit condition to establish the authorized azimuth orientation was achieved as specified by the antenna manufacturer.

Exhibit E-3 provides the declaration of Matthew W. Lightner who was the qualified engineer during the installation of the ERI directional antenna system.

First Media certifies that WZDB(FM) shall reduce power or cease operation as necessary to protect persons from radiofrequency fields in excess of the FCC guidelines.

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-1

ANTENNA MANUFACTURER DATA

WZDB(FM), SYKESVILLE, PENNSYLVANIA

***Directional Antenna System
for
WZDB, Sykesville, Pennsylvania***

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 WZDB.

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, one horizontal parasitic element per bay and four vertical parasitic elements interleaved between the bays. The antenna was mounted on the North 215 degrees East tower face with bracketry to provide an antenna orientation of North 215 degrees East. The antenna was tested on a 21" **ERI[®] λ MOUNTING SYSTEM**, which is the structure the station plans to use to support the array. All tests were performed on a frequency of 95.9 megahertz, which is the center of the FM broadcast channel assigned to WZDB.

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
WZDB, Sykesville, Pennsylvania

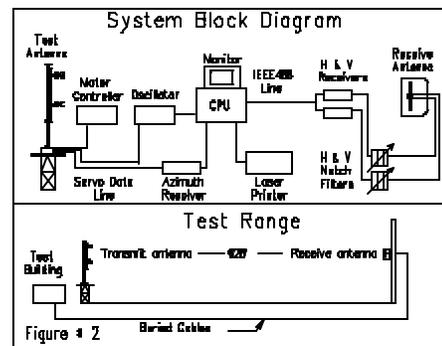
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DESCRIPTION OF THE TEST PROCEDURE

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 21" **ERI[®] λ MOUNTING SYSTEM**, 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 95.9 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
WZDB, Sykesville, Pennsylvania

(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 coordinated 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, one horizontal parasitic element per bay and four 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 215 degrees East tower face of the 21" **ERI[®] λ MOUNTING SYSTEM**, at a bearing of North 215 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 1.500 kilowatts (1.761 dBk).

The power at North 10-20 degrees East does not exceed 0.460 kilowatts (-3.372 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
Proposed For
WZDB, Sykesville, Pennsylvania

(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 25 feet 1 inch.

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.



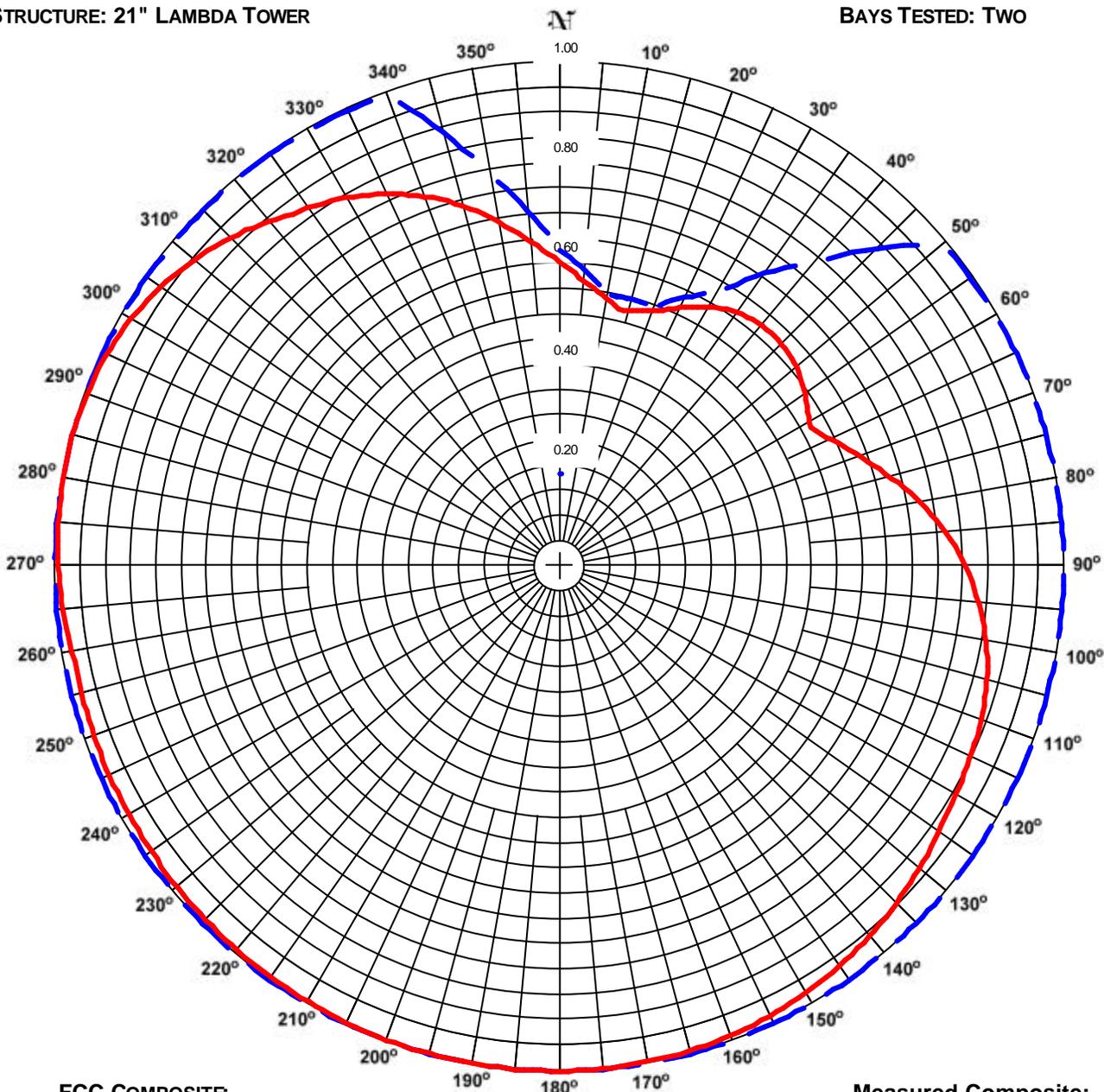
The Microsoft Word document on file electronically at Electronic Research, Inc. governs the specifications, scope, and configuration of the product described. All other representations whether verbal, printed, or electronic are subordinate to the master copy of this document on file at ERI.

ERI[®] 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: WZDB
LOCATION: SYKESVILLE, PA
ANTENNA: LP-2E-DA-HW
STRUCTURE: 21" LAMBDA TOWER

DATE: 7/10/2008
FREQUENCY: 95.9 MHZ
ORIENTATION: 215° TRUE
MOUNTING: STANDARD
BAYS TESTED: TWO



FCC COMPOSITE
RMS: 0.952
MAXIMUM: 1.000 @ 60° TRUE
MINIMUM: 0.550 @ 10° TRUE

Measured Composite:
RMS: 0.872
Maximum: 1.000 @ 179° True
Minimum: 0.525 @ 13° True

COMMENTS: COMPOSITE PATTERN: THIS PATTERN SHOWS THE MAXIMUM OF EITHER THE H OR V AZIMUTH VALUES. THIS PATTERN IS GREATER THAT 85% OF THE FCC FILED COMPOSITE PATTERN BNPH-20070502AAG.

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: WZDB
Location: Sykesville, PA
Frequency: 95.9 MHz

Antenna: LP-2E-DA-HW
Orientation: 215° True
Tower: 21" Lambda Tower

Figure: 1
Date: 7/10/2008
Reference: wzdb1m.fig

Angle	Envelope			Polarization	Angle	Envelope			Polarization
	Field	kW	dBk			Field	kW	dBk	
0°	0.606	0.55	-2.59	Horizontal	180°	1.000	1.50	1.76	Horizontal
5°	0.570	0.49	-3.12	Horizontal	185°	1.000	1.50	1.76	Horizontal
10°	0.540	0.44	-3.59	Horizontal	190°	1.000	1.50	1.76	Horizontal
15°	0.526	0.42	-3.82	Vertical	195°	0.999	1.50	1.75	Horizontal
20°	0.541	0.44	-3.57	Vertical	200°	0.999	1.50	1.75	Horizontal
25°	0.568	0.48	-3.16	Vertical	205°	0.998	1.49	1.74	Horizontal
30°	0.596	0.53	-2.73	Vertical	210°	0.996	1.49	1.73	Horizontal
35°	0.616	0.57	-2.44	Vertical	215°	0.995	1.48	1.71	Horizontal
40°	0.626	0.59	-2.30	Vertical	220°	0.993	1.48	1.70	Horizontal
45°	0.626	0.59	-2.31	Vertical	225°	0.991	1.47	1.68	Horizontal
50°	0.615	0.57	-2.46	Vertical	230°	0.988	1.47	1.66	Horizontal
55°	0.595	0.53	-2.74	Vertical	235°	0.986	1.46	1.64	Horizontal
60°	0.572	0.49	-3.09	Vertical	240°	0.984	1.45	1.62	Horizontal
65°	0.597	0.53	-2.72	Horizontal	245°	0.983	1.45	1.61	Horizontal
70°	0.637	0.61	-2.16	Horizontal	250°	0.982	1.45	1.60	Horizontal
75°	0.682	0.70	-1.56	Horizontal	255°	0.979	1.44	1.58	Horizontal
80°	0.729	0.80	-0.98	Horizontal	260°	0.981	1.44	1.59	Vertical
85°	0.770	0.89	-0.51	Horizontal	265°	0.987	1.46	1.65	Vertical
90°	0.806	0.97	-0.12	Horizontal	270°	0.993	1.48	1.70	Vertical
95°	0.835	1.05	0.20	Horizontal	275°	0.997	1.49	1.73	Vertical
100°	0.859	1.11	0.44	Horizontal	280°	0.999	1.50	1.75	Vertical
105°	0.878	1.16	0.63	Horizontal	285°	1.000	1.50	1.76	Vertical
110°	0.890	1.19	0.75	Horizontal	290°	0.998	1.49	1.74	Vertical
115°	0.897	1.21	0.82	Horizontal	295°	0.992	1.48	1.69	Vertical
120°	0.907	1.23	0.91	Horizontal	300°	0.981	1.44	1.60	Vertical
125°	0.917	1.26	1.01	Horizontal	305°	0.966	1.40	1.46	Vertical
130°	0.931	1.30	1.14	Horizontal	310°	0.947	1.35	1.29	Vertical
135°	0.945	1.34	1.27	Horizontal	315°	0.924	1.28	1.07	Vertical
140°	0.956	1.37	1.37	Horizontal	320°	0.896	1.20	0.80	Vertical
145°	0.967	1.40	1.47	Horizontal	325°	0.869	1.13	0.55	Horizontal
150°	0.976	1.43	1.55	Horizontal	330°	0.846	1.07	0.31	Horizontal
155°	0.983	1.45	1.61	Horizontal	335°	0.817	1.00	0.01	Horizontal
160°	0.989	1.47	1.67	Horizontal	340°	0.782	0.92	-0.37	Horizontal
165°	0.994	1.48	1.71	Horizontal	345°	0.742	0.83	-0.83	Horizontal
170°	0.997	1.49	1.74	Horizontal	350°	0.695	0.73	-1.39	Horizontal
175°	0.999	1.50	1.76	Horizontal	355°	0.648	0.63	-2.01	Horizontal

Polarization:	Envelope
Maximum Field:	1.000 @ 179° True
Minimum Field:	0.525 @ 13° True
RMS:	0.872
Maximum ERP:	1.500 kW
Maximum Power Gain:	0.940 (-0.270 dB)

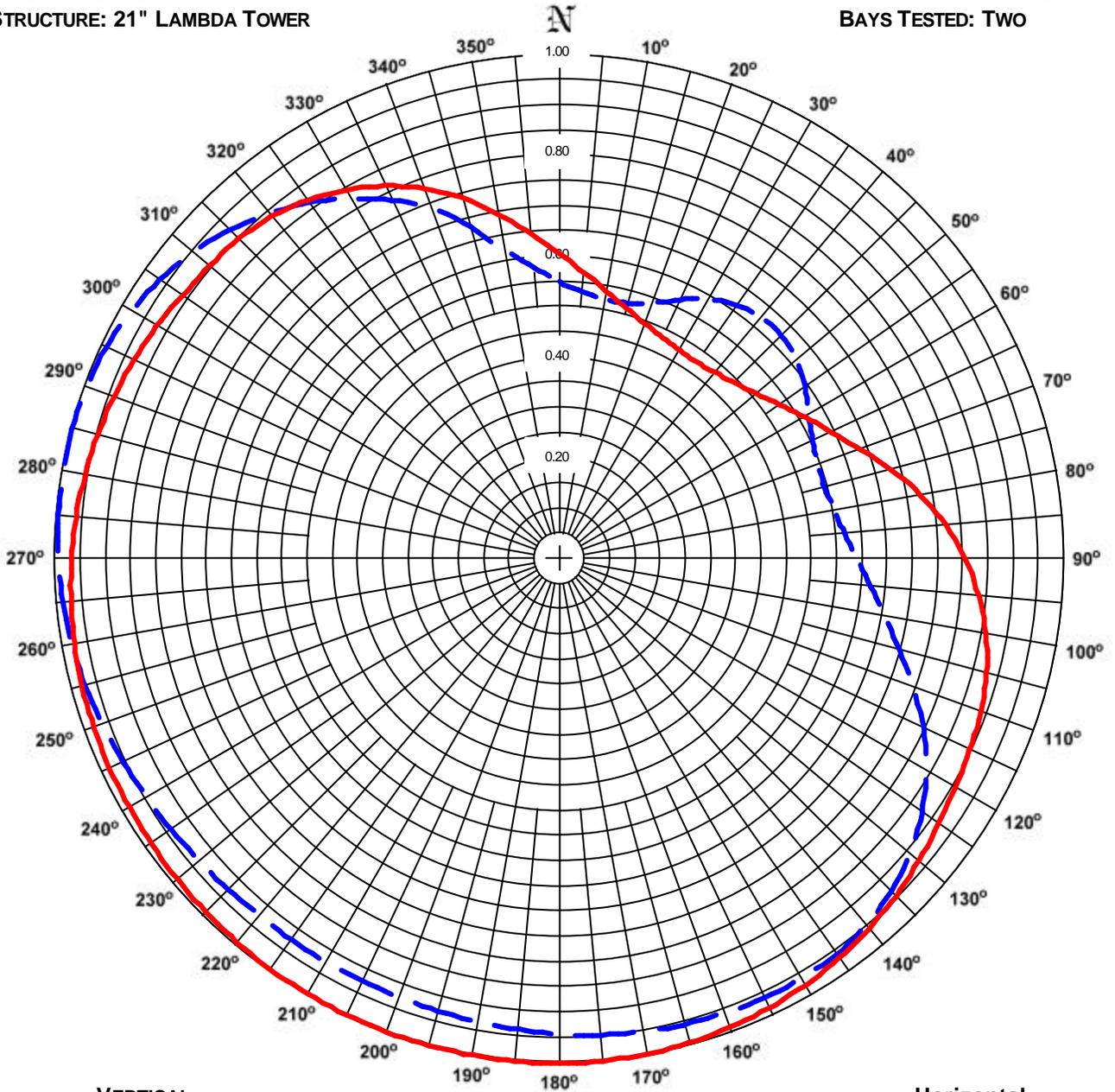
Total Input Power: 1.596 kW

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: WZDB
LOCATION: SYKESVILLE, PA
ANTENNA: LP-2E-DA-HW
STRUCTURE: 21" LAMBDA TOWER

DATE: 7/10/2008
FREQUENCY: 95.9 MHz
ORIENTATION: 215° TRUE
MOUNTING: STANDARD
BAYS TESTED: TWO



VERTICAL

RMS: 0.828
MAXIMUM: 1.000 @ 285° TRUE
MINIMUM: 0.523 @ 12° TRUE

Horizontal

RMS: 0.857
Maximum: 1.000 @ 179° True
Minimum: 0.476 @ 33° 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: WZDB
Location: Sykesville, PA
Frequency: 95.9 MHz

Antenna: LP-2E-DA-HW
Orientation: 215° True
Tower: 21" Lambda Tower

Figure: 2
Date: 7/10/2008
Reference: wzdb1m.fig

Angle	Horizontal			Vertical			Angle	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.606	0.55	-2.59	0.550	0.45	-3.43	180°	1.000	1.50	1.76	0.942	1.33	1.25
5°	0.570	0.49	-3.12	0.533	0.43	-3.71	185°	1.000	1.50	1.76	0.937	1.32	1.19
10°	0.540	0.44	-3.59	0.524	0.41	-3.85	190°	1.000	1.50	1.76	0.932	1.30	1.15
15°	0.516	0.40	-3.99	0.526	0.42	-3.82	195°	0.999	1.50	1.75	0.928	1.29	1.12
20°	0.497	0.37	-4.31	0.541	0.44	-3.57	200°	0.999	1.50	1.75	0.926	1.28	1.09
25°	0.484	0.35	-4.54	0.568	0.48	-3.16	205°	0.998	1.49	1.74	0.924	1.28	1.07
30°	0.477	0.34	-4.66	0.596	0.53	-2.73	210°	0.996	1.49	1.73	0.923	1.28	1.06
35°	0.477	0.34	-4.67	0.616	0.57	-2.44	215°	0.995	1.48	1.71	0.923	1.28	1.06
40°	0.482	0.35	-4.57	0.626	0.59	-2.30	220°	0.993	1.48	1.70	0.925	1.28	1.08
45°	0.494	0.37	-4.37	0.626	0.59	-2.31	225°	0.991	1.47	1.68	0.928	1.29	1.11
50°	0.511	0.39	-4.07	0.615	0.57	-2.46	230°	0.988	1.47	1.66	0.932	1.30	1.15
55°	0.534	0.43	-3.69	0.595	0.53	-2.74	235°	0.986	1.46	1.64	0.938	1.32	1.20
60°	0.562	0.47	-3.24	0.572	0.49	-3.09	240°	0.984	1.45	1.62	0.945	1.34	1.27
65°	0.597	0.53	-2.72	0.555	0.46	-3.36	245°	0.983	1.45	1.61	0.954	1.36	1.35
70°	0.637	0.61	-2.16	0.546	0.45	-3.50	250°	0.982	1.45	1.60	0.963	1.39	1.44
75°	0.682	0.70	-1.56	0.546	0.45	-3.49	255°	0.979	1.44	1.58	0.973	1.42	1.52
80°	0.729	0.80	-0.98	0.554	0.46	-3.37	260°	0.976	1.43	1.55	0.981	1.44	1.59
85°	0.770	0.89	-0.51	0.569	0.49	-3.13	265°	0.972	1.42	1.51	0.987	1.46	1.65
90°	0.806	0.97	-0.12	0.591	0.52	-2.80	270°	0.967	1.40	1.47	0.993	1.48	1.70
95°	0.835	1.05	0.20	0.620	0.58	-2.39	275°	0.962	1.39	1.42	0.997	1.49	1.73
100°	0.859	1.11	0.44	0.656	0.65	-1.90	280°	0.955	1.37	1.36	0.999	1.50	1.75
105°	0.878	1.16	0.63	0.699	0.73	-1.35	285°	0.948	1.35	1.30	1.000	1.50	1.76
110°	0.890	1.19	0.75	0.748	0.84	-0.77	290°	0.940	1.33	1.23	0.998	1.49	1.74
115°	0.897	1.21	0.82	0.797	0.95	-0.21	295°	0.931	1.30	1.14	0.992	1.48	1.69
120°	0.907	1.23	0.91	0.841	1.06	0.25	300°	0.922	1.27	1.05	0.981	1.44	1.60
125°	0.917	1.26	1.01	0.878	1.16	0.63	305°	0.912	1.25	0.96	0.966	1.40	1.46
130°	0.931	1.30	1.14	0.908	1.24	0.92	310°	0.905	1.23	0.90	0.947	1.35	1.29
135°	0.945	1.34	1.27	0.931	1.30	1.14	315°	0.899	1.21	0.83	0.924	1.28	1.07
140°	0.956	1.37	1.37	0.948	1.35	1.30	320°	0.887	1.18	0.72	0.896	1.20	0.80
145°	0.967	1.40	1.47	0.958	1.38	1.38	325°	0.869	1.13	0.55	0.863	1.12	0.48
150°	0.976	1.43	1.55	0.961	1.38	1.41	330°	0.846	1.07	0.31	0.826	1.02	0.11
155°	0.983	1.45	1.61	0.960	1.38	1.41	335°	0.817	1.00	0.01	0.785	0.93	-0.34
160°	0.989	1.47	1.67	0.959	1.38	1.39	340°	0.782	0.92	-0.37	0.740	0.82	-0.85
165°	0.994	1.48	1.71	0.956	1.37	1.37	345°	0.742	0.83	-0.83	0.682	0.70	-1.56
170°	0.997	1.49	1.74	0.952	1.36	1.34	350°	0.695	0.73	-1.39	0.623	0.58	-2.35
175°	0.999	1.50	1.76	0.948	1.35	1.30	355°	0.648	0.63	-2.01	0.581	0.51	-2.96

Polarization:	Horizontal	Vertical
Maximum Field:	1.000 @ 179° True	1.000 @ 285° True
Minimum Field:	0.476 @ 33° True	0.523 @ 12° True
RMS:	0.857	0.828
Maximum ERP:	1.500 kW	1.500 kW
Maximum Power Gain:	0.940 (-0.270 dB)	0.940 (-0.270 dB)

Total Input Power: 1.596 kW



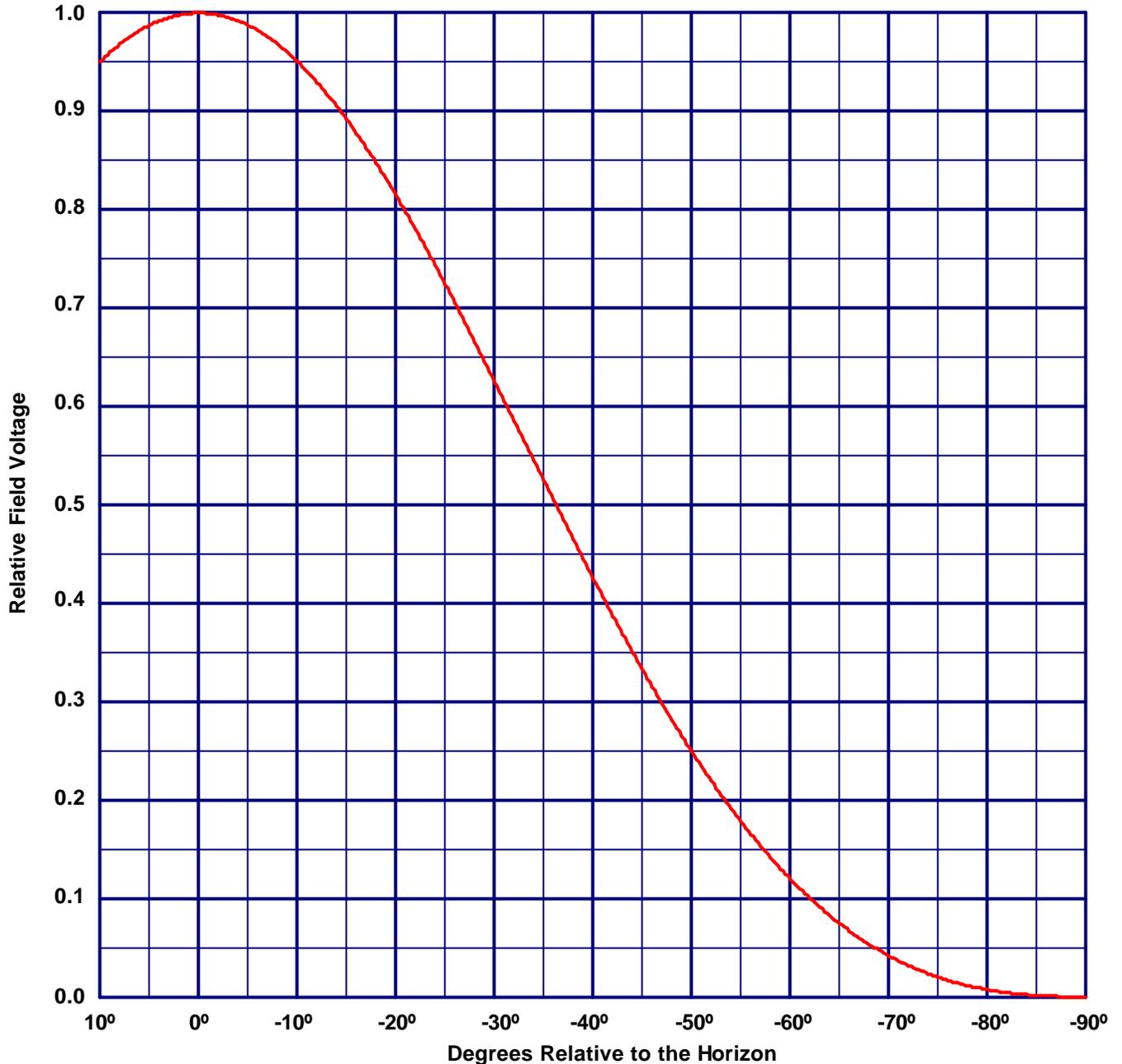
Vertical Plane Relative Field Pattern

WZDB, Sykesville, PA, 95.9 MHz

Figure#: 3

Date: 7/10/2008

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: 0.940 (-0.270 dB)
Horizontal Plane: 0.940 (-0.270 dB)

Horizontal Polarization Gain:
Maximum: 0.940 (-0.270 dB)
Horizontal Plane: 0.940 (-0.270 dB)

Directional Antenna System for WZDB, Sykesville, Pennsylvania

(Continued)

ANTENNA SPECIFICATIONS

Antenna Type:	LP-2E-DA-HW
Frequency:	95.9 MHz
Number of Bays:	Two

MECHANICAL SPECIFICATIONS

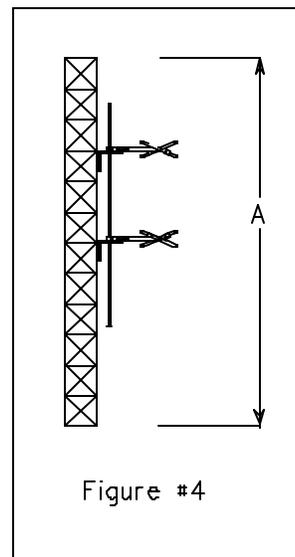
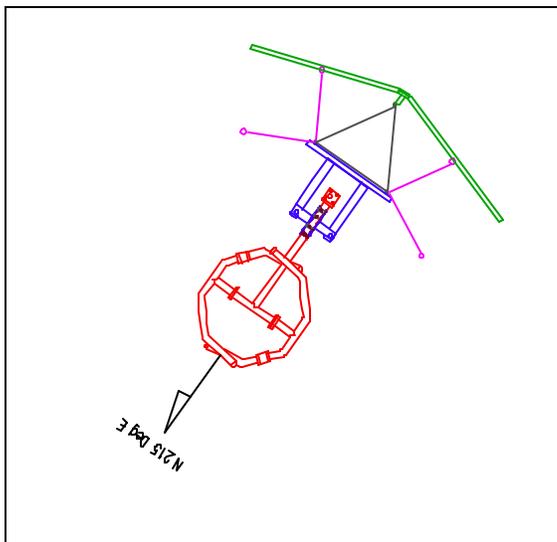
Mounting:	Standard
System length:	13 ft 8 in
Aperture length required:	25 ft 1 in
Orientation:	215° true

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

ELECTRICAL SPECIFICATIONS

(For directional use)

Maximum horizontal ERP:	1.500 kW (1.761 dBk)
Horizontal maximum power gain:	0.940 (-0.270 dB)
Maximum vertical ERP:	1.500 kW (1.761 dBk)
Vertical maximum power gain:	0.940 (-0.270 dB)
Total input power:	1.596 kW (2.032 dBk)



Directional Antenna System
Proposed For

(Continued)

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2

LICENSED SURVEYOR'S AFFIDAVIT

WZDB(FM), SYKESVILLE, PENNSYLVANIA

Alexander & Associates Inc.

(Land & GPS Surveying Services)
112 CHURCH STREET
P.O. BOX 378
FALLS CREEK, PA 15840
(814) 371-5578 (V) 814-371-5850 (F)
e-mail lionalalexander@comcast.net

First Media Radio, LLC
306 Port Street
Easton, MD 21601

Attn: Mr. Alex Kolobeilski

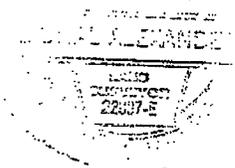
To whom it may concern,

This letter is to certify that based on field observations taken at the site on April 8, 2009, where the newly installed directional antenna mounted on the tower know as "WZDB" located along U.S. Route 219, Brady Township, Clearfield County is oriented toward an azimuth of 215 degrees, plus or minus 2 degrees as measured to the right from true north. This information is based on coordinate information taken from the NGS Data Sheet for the horizontal control station "Luther" (Luthersburg Quad) (NAD-83) and control monument "Luther AZ MK", 1938.

Certified this 8th day of April, 2009



Lional Alexander, PLS
SU22887-E



Determination of True North based on the field location of NGS Control Monument "Luther(1938)" and the Control Monument "Luther AZ MK" 1938

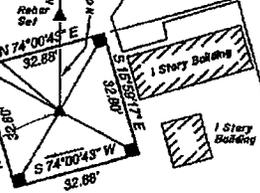


True North Line

(NAD 83)
Geographic Coord For Tower
Lat. 41°-02'-44.1303 (N)
Long. 78°-42'-10.8946 (W)
Steel Tower Structure (New)
(WDZB)

(NAD 83)
Geographic Coord For Tower
Lat. 41°-02'-43.564 (N)
Long. 78°-42'-10.026 (W)
Ground Elev. 2054.5'
Steel Tower Structure

Existing
Concrete
Base
Supports (4)
For Tower
(Outside Dim.)



107-D06-000-00005
Instrument Number 200205771
Dated: April 10, 2002

First Media Radio LLC.

**Site Survey For Existing
Radio Tower Orientation
Relative to True North**

Brady Township, Clearfield County, Pennsylvania

Prepared: April 8, 2009

Prepared By: Alexander B Associates, Inc., 112 Church Stree, Falls Creek, PA. 15840



Call Before You Dig!
Pennsylvania Law Requires
3 Working Days Notice For
Construction Phase And 10 Working
Days Notice In Design Stage.
Stop Call
Pennsylvania One Call System, Inc.
1-800-242-1776



Certificate by Surveyor that the Survey and Plans are Correct:
I, Lionel Alexander, hereby certify that I am a registered Land Surveyor in the Commonwealth of Pennsylvania. I further certify that this plot correctly represents a survey completed by me and that all monuments and markers shown hereon actually exist and that their location, type, and material are accurately shown.

Date: 4-8-09

Signature: 

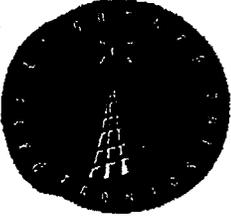
50 22867-E

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-3

FIELD ENGINEER'S DECLARATION

WZDB(FM), SYKESVILLE, PENNSYLVANIA



Lightner Electronics, Inc.
1771 Beaver Dam Road
Claysburg, PA 18828
Tel: 814-238-8323
Fax: 814-238-8402
www.LightnerElectronics.com
Broadcast Sales and Engineering

Engineer's Declaration

I Matthew W. Lightner, Subject to the penalties of perjury, do declare the following:

1. I have extensive experience as a broadcast technical consultant for the last 14 years were I have managed many directional antenna installations.
2. I have been contracted as the technical consultant for the construction of the WZDB transmitter facility, were I supervised all technical aspects of the construction.
3. I am familiar with all the technical parameters of the WZDB Construction Permit.
4. I hereby certify that I have overseen the installation of the WZDB Directional Antenna and confirm it was completed as per the manufacture's instructions.

Dated: April 2, 2009

Matthew W. Lightner - President
Lightner Electronics, Inc.

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Donald G. Everist		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date April 17, 2009	
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100			
City Washington		State or Country (if foreign address) DC	ZIP Code 20005
Telephone Number (include area code) (202) 898-0111		E-Mail Address (if available) cde@attglobal.net	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001),
AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)),
AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Section III - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: _____				
2. a. Effective Radiated Power: _____ kW (H) _____ kW (V)				
b. Maximum Effective Radiated Power: <input type="checkbox"/> Not applicable _____ kW (H) _____ kW (V) (Beam-Tilt Antenna ONLY)				
3. Transmitter Power Output: _____ kW				
4. Antenna Data				
<table border="1"><tr><td>Manufacturer</td><td>Model</td><td>Number of Sections</td><td>Spacing Between Sections (wavelength)</td></tr></table>	Manufacturer	Model	Number of Sections	Spacing Between Sections (wavelength)
Manufacturer	Model	Number of Sections	Spacing Between Sections (wavelength)	

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

All applicants must complete this section.

5. **Main Studio Location.** The main studio location complies with 47 C.F.R. Section 73.1125. Yes No See Explanation in Exhibit No.
6. **Transmitter Power Output.** The operating transmitter power output produces the authorized effective radiated power. Yes No See Explanation in Exhibit No.

APPLICATIONS FILED TO COVER A CONSTRUCTION PERMIT.

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

7. **Constructed Facility.** The facility was constructed as authorized in the underlying construction permit or complies with 47 C.F.R. Section 73.1690. Yes No See Explanation in Exhibit No.
8. **Special Operating Conditions.** The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. Yes No See Explanation in Exhibit No.
- Exhibit No.
- An exhibit may be required.** Review the underlying construction permit.

PREPARER'S CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

APPLICATION FILED PURSUANT TO 47 C.F.R. SECTIONS 73.1675(c) or 73.1690(c).

Only applicants filing this application pursuant to 47 C.F.R. Sections 73.1675(c) or 73.1690(c) must complete the following

9. **Changing transmitter power output.** Is this application being filed to authorize a change in transmitter power output caused by the replacement of omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10). Yes No

10. **Increasing effective radiated power.** Is this application being filed to authorize an increase in ERP for a station operating in the nonreserved band (Channels 221-300)? See 47 C.F.R. Sections 73.1690(c)(4), (c)(5) and (c)(7). Yes No

If "Yes" to the above, the Applicant certifies the following:

a. **Spacing Requirements.** The increase in ERP was authorized pursuant to MM Docket 88-375 (Class A stations) OR the facility complies with the spacing requirements of 47 C.F.R. Section 73.207. Yes No See Explanation in Exhibit No.

b. **International Coordination.** The transmitter site is greater than 320 km from the Canadian or Mexican borders OR coordination for the station's international class is complete. Yes No See Explanation in Exhibit No.

c. **Interference.** The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied OR are not applicable. Yes No See Explanation in Exhibit No.

Exhibit required. If the proposed facility must be notified to the entities set forth in 47 C.F.R. Section 73.1030, the applicant must provide a copy of the written approval for the ERP increase from the affected entity. Exhibit No.

d. **Multiple Ownership Showing.** The increase in ERP will not require the consideration of a multiple ownership showing pursuant to 47 C.F.R. Section 73.3555. Yes No See Explanation in Exhibit No.

e. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an **Exhibit is required.** Yes No See Explanation in Exhibit No.

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

11. **Increasing vertically polarized effective radiated power.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(4) to authorize an increase in the vertically polarized ERP for a station operating in the reserved band (Channels 200-220)? Yes No

If "Yes" to the above, the Applicant certifies the following:

- a. **TV Channel 6 Protection Requirements.** The facility complies with the spacing requirements of 47 C.F.R. Section 73.525(a)(1). Yes No See Explanation in Exhibit No.

- b. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an **Exhibit is required.** Yes No See Explanation in Exhibit No.

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

12. **Decreasing effective radiated power (non-reserved channel).** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(8) to authorize a decrease in the ERP for a station operating in the nonreserved band (Channels 221-300)? Yes No

If "Yes" to the above, the Applicant certifies the following:

- a. **Community Coverage.** The proposed facility complies with the community coverage requirements of 47 C.F.R. Section 73.315 where the distance to the 3.16 mV/m contour is predicted using the standard prediction method in 47 C.F.R. Section 73.313. Yes No See Explanation in Exhibit No.

- b. **Auxiliary Facilities.** The authorized or pending auxiliary facilities for this station comply with 47 C.F.R. Section 73.1675(a). Yes No See Explanation in Exhibit No.

- c. **Multiple Ownership Showing.** The decrease in ERP is not requested or required to establish compliance with 47 C.F.R. Section 73.3555. Yes No See Explanation in Exhibit No.

13. **Decreasing effective radiated power (reserved channel).** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(8) to authorize a decrease in the ERP for a station operating in the reserved band (Channels 200-220)? Yes No

If "Yes" to the above, the Applicant certifies the following:

- a. **Community Coverage.** The proposed facility complies with the community coverage requirements of 47 C.F.R. Section 73.1690(c)(8)(i) where the distance to the 1 mV/m contour is predicted using the standard prediction method in 47 C.F.R. Section 73.313. Yes No See Explanation in Exhibit No.

- b. **Auxiliary Facilities.** The authorized or pending auxiliary facilities for this station comply with 47 C.F.R. Section 73.1675(a). Yes No See Explanation in Exhibit No.

14. **Replacing a directional antenna.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(2) to replace a directional antenna with another directional antenna? Yes No

If "Yes" to the above, the applicant certifies the following:

- a. **Measurement of Directional Antenna.** The composite measured pattern and measurement procedures comply with 47 C.F.R. Section 73.1690(c)(2). **Exhibit required.** Yes No See Explanation in Exhibit No.
Exhibit No.

- b. **Installation of Directional Antenna.** The installation of the directional antenna complies with 47 C.F.R. Section 73.1690(c)(2). **Exhibit required.** Yes No See Explanation in Exhibit No.
Exhibit No.

15. **Deleting contour protection status.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(6) to delete contour protection status (47 C.F.R. Section 73.215) for a station operating in the nonreserved band (Channels 221-300)? Yes No

- a. If "Yes" to the above, the applicant certifies that the facility complies with the spacing requirements of 47 C.F.R. Section 73.207. Yes No See Explanation in Exhibit No.

16. **Use a formerly licensed main facility as an auxiliary facility.** Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility? Yes No

If "Yes" to the above, the applicant certifies the following:

- a. **Auxiliary antenna service area.** The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a). Yes No See Explanation in Exhibit No.

- b. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an **Exhibit is required.** Yes No See Explanation in Exhibit No.

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

17. **Change the license status.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(9) to change the license status from commercial to noncommercial or from noncommercial to commercial? Yes No

Exhibit No.

If "Yes" to the above, submit an exhibit providing full particulars. For applications changing license status from commercial to noncommercial, include Section II of FCC Form 340 as an exhibit to this application.

PREPARER'S CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.