



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
EBA135

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**SHELLY MURRAY
 304-558-8801**

**RFQ COPY
 TYPE NAME/ADDRESS HERE**

VENDOR

SHIP TO

**WNPB-TV
 191 SCOTT AVENUE
 MORGANTOWN, WV
 26505 293-6511**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
12/13/2007				

BID OPENING DATE: **01/10/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUEST FOR QUOTATION						
<p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR THE WV EDUCATIONAL BROADCASTING AUTHORITY TO PROVIDE SEVEN (7) DIGITAL TELEVISION ANTENNA SYSTEMS THAT WILL WORK IN CONCERT WITH COMPANION DIGITAL TRANSMITTERS AT SEVEN (7) EXISTING ANALOG TRANSLATOR SITES.</p> <p>ATTACHMENTS: SPECIFICATION PURCHASING AFFIDAVIT</p> <p>INQUIRIES: WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON THURSDAY, JANUARY 3, 2008. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER, OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRES TO:</p> <p>SHELLY MURRAY DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25311 FAX: 304-558-4115 EMAIL: SMURRAY@WVADMIN.GOV</p>						
0001	1	LS		840-10		
ANTENNAS AND ACCESSORIES, TELEVISION						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum -** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



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**WNPB-TV
 191 SCOTT AVENUE
 MORGANTOWN, WV
 26505 293-6511**

DATE PRINTED 12/13/2007	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **01/10/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p>						

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<p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE</p>						

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<p>ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: -----</p> <p>DATE: -----</p> <p>SIGNED: -----</p> <p>TITLE: -----</p>						

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<p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: SM / FILE 31</p> <p>RFQ. NO.: EBA135</p> <p>BID OPENING DATE: 01/10/2008</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY</p>						

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<p>TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>-----</p>						
<p>***** THIS IS THE END OF RFQ EBA135 ***** TOTAL:</p>						

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West Virginia Public Broadcasting is seeking quotes on 7 Digital television antenna systems.

Overview:

West Virginia Public Broadcasting operates a statewide network of television transmitters. This project will add companion digital transmitters to 7 existing analog translator sites. The existing sites will require a variety of individualized antennas and power levels, therefore each site shall have its own individualized bid. The overall bid for the antenna systems shall be awarded to a single vendor.

9 Sections: 21 Pages

- 1 General Mechanical Specifications**
- 2 Transmission lines**
- 3 Specific site requirements**
- 4 Definitions**
- 5 Options**
- 6 Schedule of Delivery**
- 7 Shipping and Delivery**
- 8 Invoicing and Billing**
- 9 Individual Site Quotations Page**

1 General Mechanical Specifications

- 1.1 All structural elements shall be designed and fabricated in accordance with TIA/EIA standard RS-222-G, Structural Standards for Steel Antenna, Towers, and Supporting Structures
- 1.2 All hardware shall be constructed of non-ferrous material (Brass, Copper, Stainless Steel, etc) or be Galvanized
 - 1.2.1 Steel elements shall be hot-dip galvanized in accordance with ASTM A123
 - 1.2.2 Zinc coating shall be applied with a minimum thickness of 0.002 inches (0.05 mm) in accordance with Metco Specification MS-108A
- 1.3 Vendor shall provide mounting adapters for each antenna
- 1.4 Vendor shall certify the directional pattern and gain for each antenna
- 1.5 All antennas, transmission lines, and connectors shall be rated for the power level indicated in the specific site requirements
- 1.6 All materials shall be new, no surplus or refurbished components are allowed

2 Transmission lines

2.1 Vendor shall provide transmission line

2.1.1 Transmission lines shall be 1 5/8 air dielectric flexible coax

2.1.1.1 Impedance shall be 50 ohms

2.1.2 Vendor shall provide connectors for transmission line

2.1.2.1 The line shall be pressurized, all necessary gas barriers and connectors shall be provided

2.1.2.2 Connector size (transmitter end) is listed in the specific site requirement section

2.1.2.3 Antenna connector size will be at the vendor's discretion

2.1.2.4 The line shall be shipped with one connector (the antenna end) attached from the factory, and the other connector will be attached in the field

2.1.3 Vendor shall provide all hangers, clamps, grounding kits, hoisting grips, and other hardware necessary for installation

3 Specific Site requirements

3.1 Forks of Cacapon

3.1.1 Transmitter shall operate on Channel 38

3.1.2 TPO shall be 407 Watts average

3.1.3 Antenna shall exhibit a peak gain of 15.3 dB

3.1.4 Transmission line length shall be 60 meters

3.1.5 Transmission line run shall be 50 meters vertical and 10 meters horizontal

3.1.6 Connection to the transmitter shall be 7/8" EIA Flange

3.1.7 Directional Tabulation

c. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf")											
Rotation (Degrees): 25						<input type="checkbox"/> No Rotation					
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	1	10	0.98	20	0.95	30	0.92	40	0.91	50	0.95
60	0.99	70	1	80	0.97	90	0.9	100	0.76	110	0.59
120	0.3	130	0.03	140	0.03	150	0.03	160	0.03	170	0.03
180	0.03	190	0.03	200	0.03	210	0.03	220	0.03	230	0.03
240	0.3	250	0.59	260	0.76	270	0.9	280	0.97	290	1
300	0.99	310	0.95	320	0.91	330	0.92	340	0.95	350	0.98

3.2 Mathias

3.2.1 Transmitter shall operate on Channel 9

3.2.2 TPO shall be 19 Watts average

3.2.3 The antenna shall exhibit a peak gain of 7.24 dB

3.2.4 Transmission line length shall be 50 meters

3.2.5 Transmission line run shall be 40 meters vertical and 10 meters horizontal

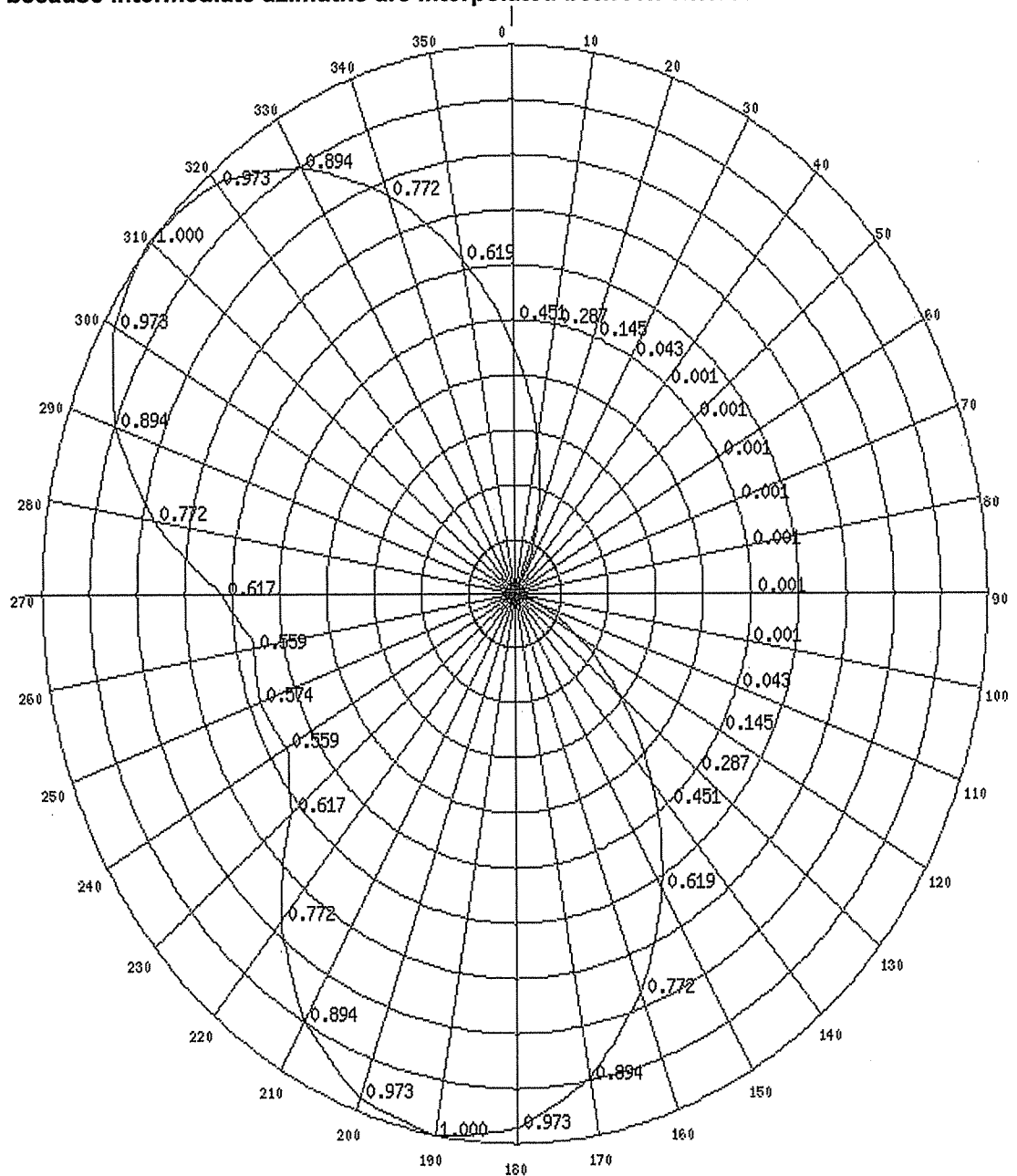
3.2.6 Connection to the transmitter shall be an "N" connector

3.2.7 Directional Tabulation

c. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf")											
Rotation (Degrees): 250 <input checked="" type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.574	10	0.559	20	0.617	30	0.772	40	0.894	50	0.973
60	1	70	0.973	80	0.894	90	0.772	100	0.619	110	0.451
120	0.287	130	0.145	140	0.043	150	0.001	160	0.001	170	0.001
180	0.001	190	0.001	200	0.001	210	0.001	220	0.043	230	0.145
240	0.287	250	0.451	260	0.619	270	0.772	280	0.894	290	0.973
300	1	310	0.973	320	0.894	330	0.772	340	0.617	350	0.559
Additional Azimuths		11	0.559	349	0.559						

3.2.8 Directional Pattern

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values
because intermediate azimuths are interpolated between entered azimuths.



3.3 Parkersburg

3.3.1 Transmitter shall operate on Channel 51

3.3.2 TPO shall be 1333 Watts Average

3.3.3 The antenna shall exhibit a peak gain of 11.8 dB

3.3.4 Transmission line length shall be 67 meters

3.3.5 Transmission line run shall be 57 meters vertical and 10 meters horizontal

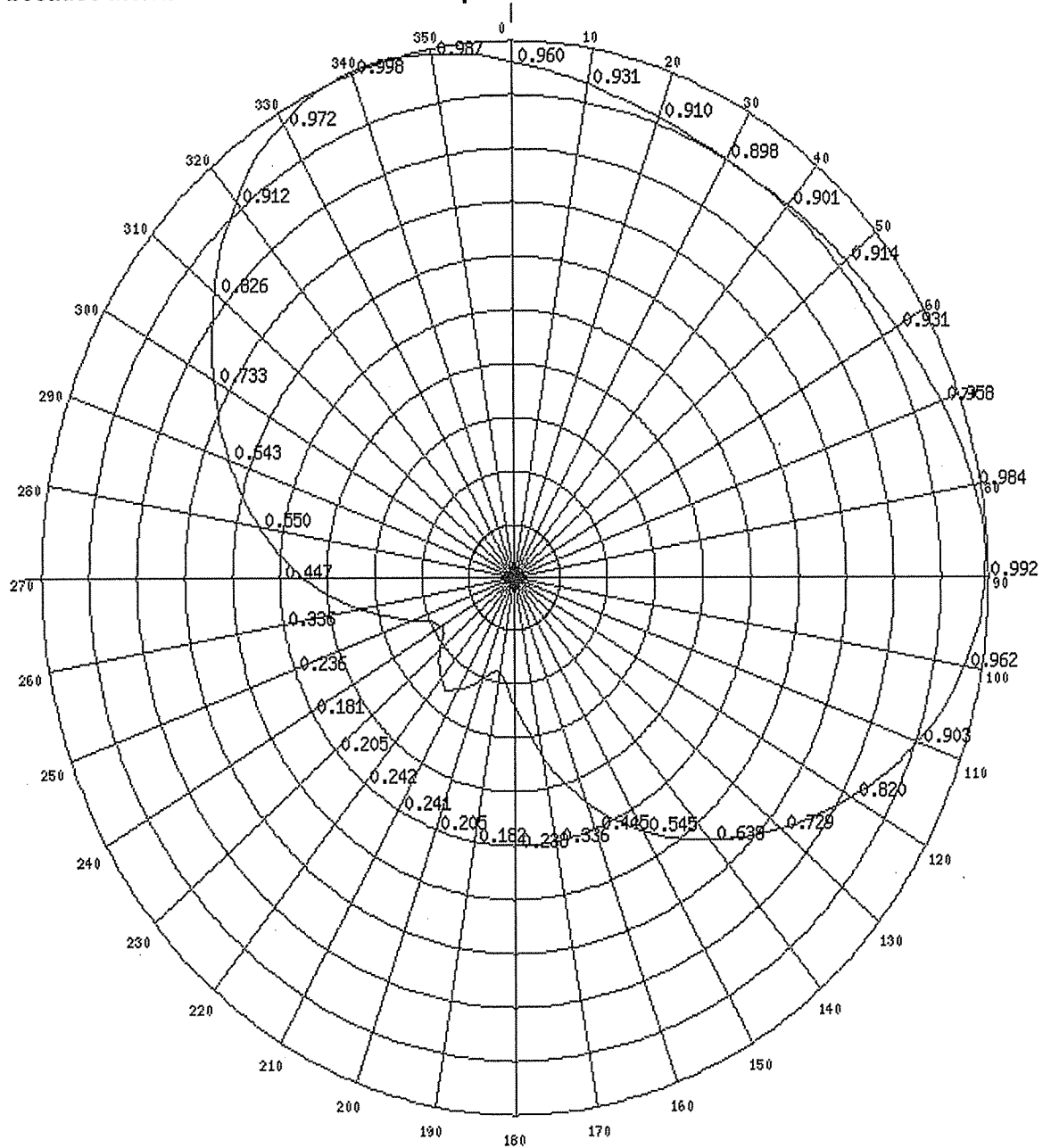
3.3.6 Connection to the transmitter shall be 7/8" EIA Flange

3.3.7 Directional tabulation

Rotation (Degrees): 35 <input type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.895	10	0.908	20	0.921	30	0.942	40	0.974	50	0.995
60	0.985	70	0.94	80	0.865	90	0.775	100	0.684	110	0.593
120	0.497	130	0.392	140	0.28	150	0.197	160	0.184	170	0.226
180	0.257	190	0.227	200	0.183	210	0.194	220	0.278	230	0.393
240	0.502	250	0.599	260	0.688	270	0.778	280	0.873	290	0.951
300	0.993	310	0.998	320	0.976	330	0.944	340	0.918	350	0.901
Additional Azimuths		52	0.996	307	1	156	0.179	204	0.178		

3.3.8 Directional Pattern

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values
because intermediate azimuths are interpolated between entered azimuths.



3.4 Romney

3.4.1 Transmitter shall operate on Channel 27

3.4.2 TPO shall be 2173 Watts Average

3.4.3 The antenna shall exhibit a peak gain of 8.75 dB

3.4.4 Transmission line length shall be 35 meters

3.4.5 Transmission line run shall be 25 meters vertical and 10 meters horizontal

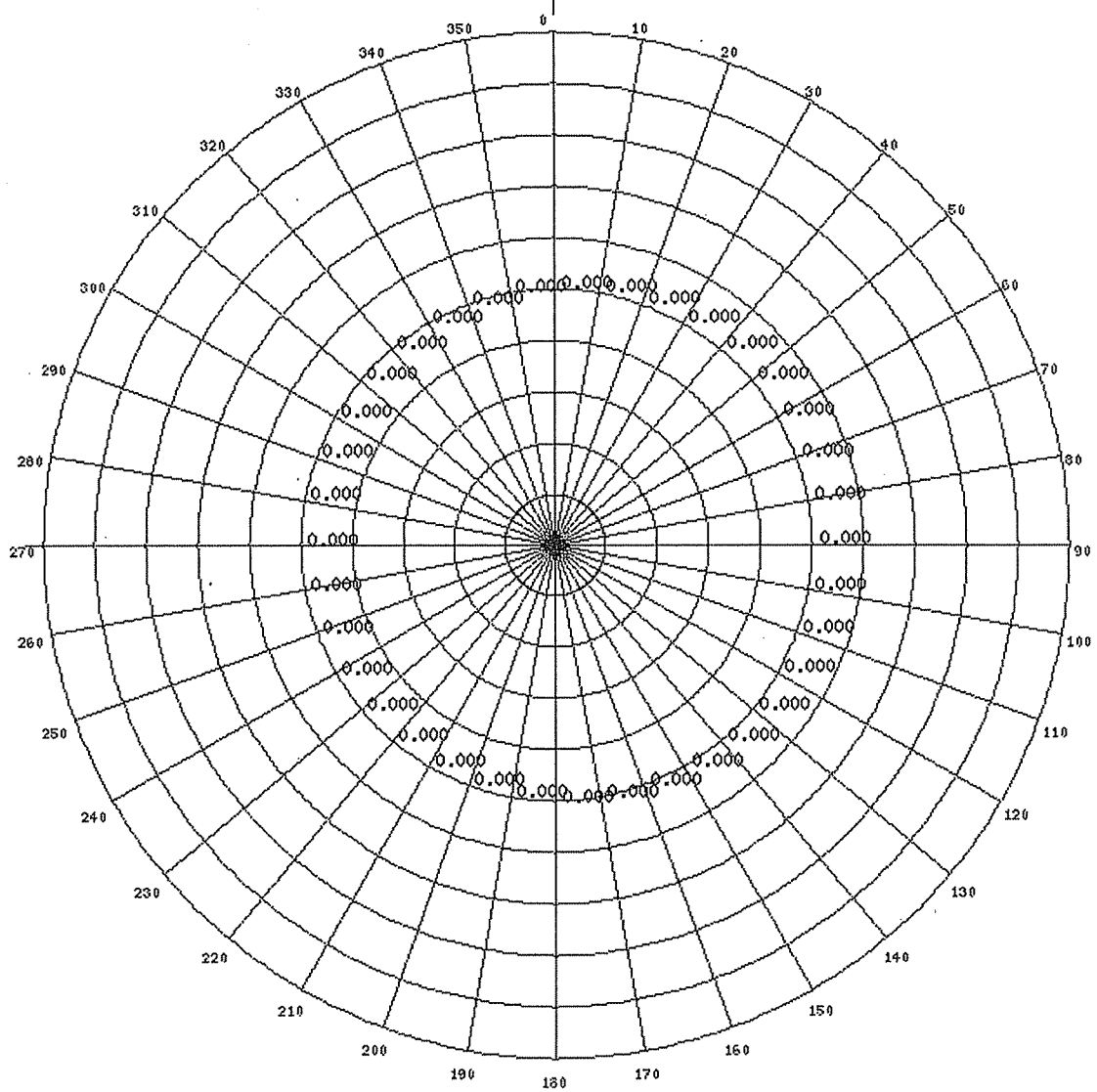
3.4.6 Connection to the transmitter shall be 1 5/8" EIA Flange

3.4.7 Directional Tabulation

c. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf")											
Rotation (Degrees): <input type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0		10		20		30		40		50	
60		70		80		90		100		110	
120		130		140		150		160		170	
180		190		200		210		220		230	
240		250		260		270		280		290	
300		310		320		330		340		350	

3.4.8 Directional Pattern

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values
because intermediate azimuths are interpolated between entered azimuths.



3.5 Keyser

3.5.1 Transmitter shall operate on Channel 41

3.5.2 TPO shall be 300 Watts Average

3.5.3 The antenna shall exhibit a peak gain of 14.35 dB

3.5.4 Transmission line length shall be 22 meters

3.5.5 Transmission line run shall be 12 meters vertical and 10 meters horizontal

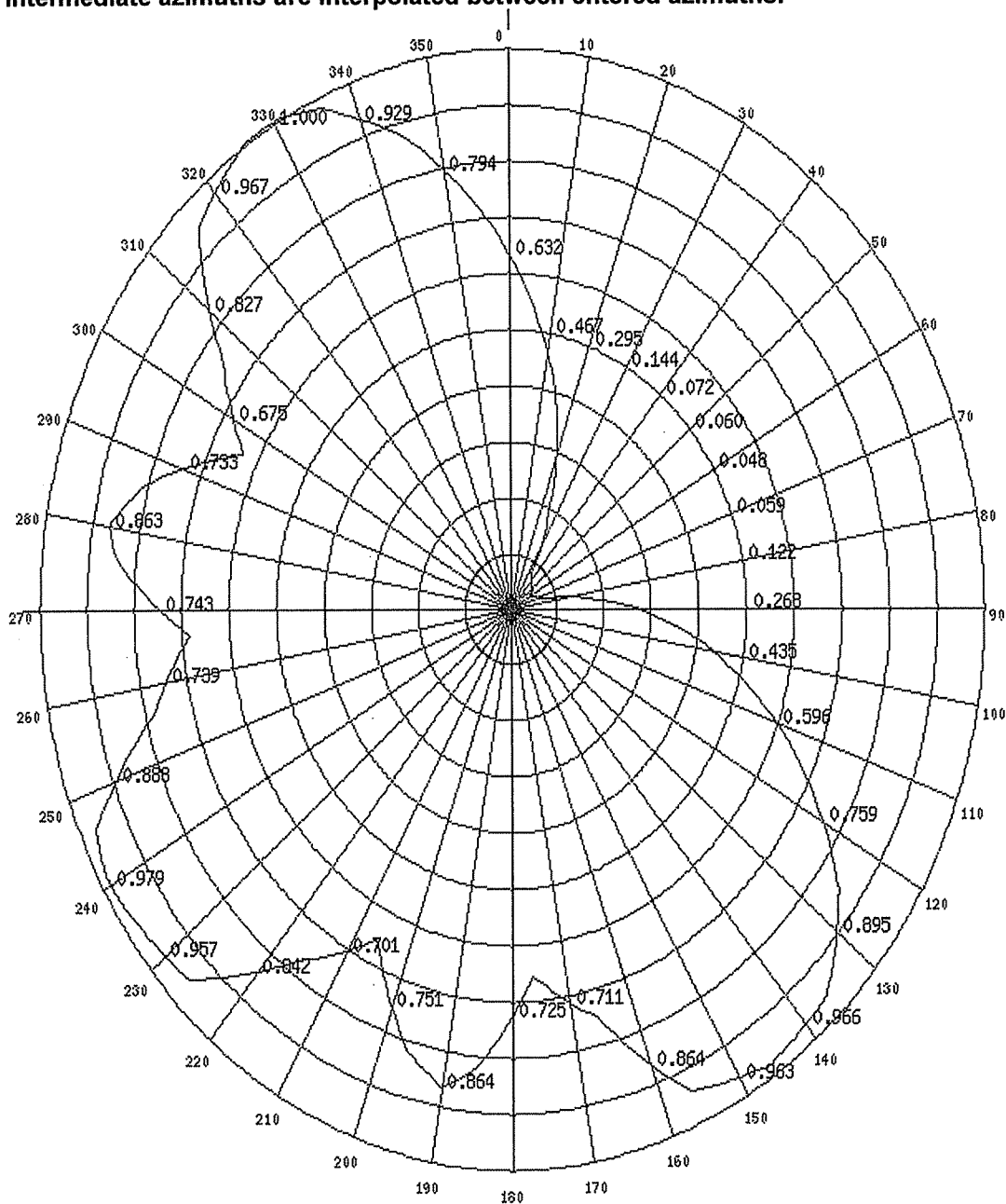
3.5.6 Connection to the transmitter shall be 7/8" EIA Flange

3.5.7 Directional Tabulation

c. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf")											
Rotation (Degrees): 236 <input type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.973	10	0.961	20	0.779	30	0.68	40	0.837	50	0.804
60	0.627	70	0.748	80	0.945	90	0.999	100	0.976	110	0.858
120	0.698	130	0.533	140	0.367	150	0.187	160	0.079	170	0.061
180	0.058	190	0.051	200	0.07	210	0.2	220	0.371	230	0.53
240	0.696	250	0.853	260	0.958	270	0.978	280	0.941	290	0.748
300	0.655	310	0.831	320	0.816	330	0.654	340	0.772	350	0.947
Additional Azimuths		5	0.981	44	0.863	95	1	314	0.864	185	0.046

3.5.8 Directional Pattern

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.



3.6 Martinsburg

3.6.1 Transmitter shall operate on Channel 8

3.6.2 TPO shall be 60 Watts Average

3.6.3 The antenna shall exhibit a peak gain of 7.56 dB

3.6.4 Transmission line length shall be 57 meters

3.6.5 Transmission line run shall be 47 meters vertical and 10 meters horizontal

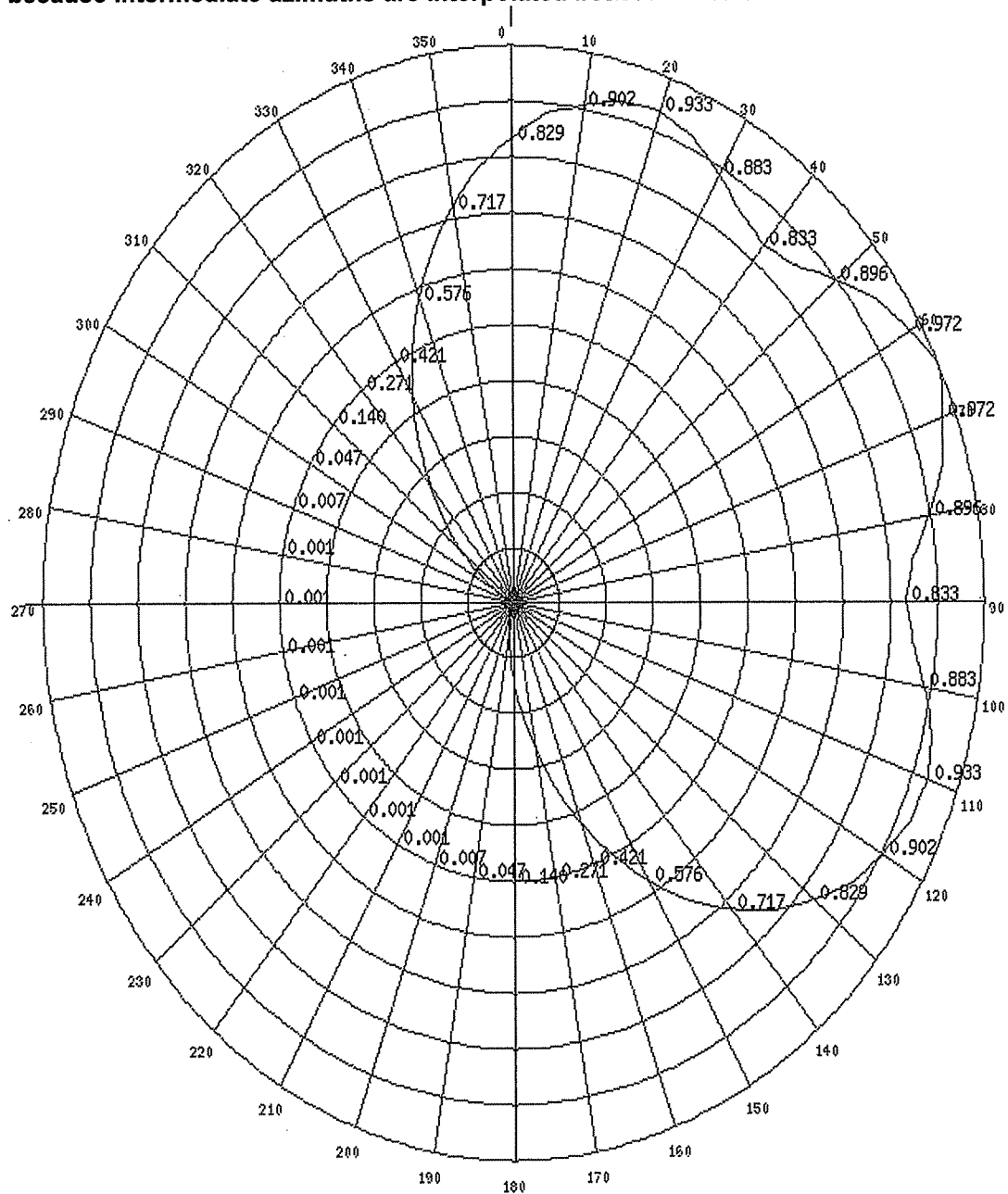
3.6.6 Connection to the transmitter shall be type "N" connector

3.6.7 Directional Tabulation

c. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf")											
Rotation (Degrees): 65 <input type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	1	10	0.943	20	0.849	30	0.849	40	0.917	50	0.927
60	0.877	70	0.782	80	0.652	90	0.5	100	0.343	110	0.198
120	0.082	130	0.012	140	0.001	150	0.001	160	0.001	170	0.001
180	0.001	190	0.001	200	0.001	210	0.001	220	0.001	230	0.012
240	0.082	250	0.198	260	0.343	270	0.5	280	0.652	290	0.782
300	0.877	310	0.927	320	0.917	330	0.849	340	0.849	350	0.943
Additional Azimuths		25	0.833	45	0.933	315	0.933	335	0.833		

3.6.8 Directional Pattern

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values
because intermediate azimuths are interpolated between entered azimuths.



3.7 Wardensville

3.7.1 Transmitter shall operate on Channel 7

3.7.2 TPO shall be 40 Watts Average

3.7.3 The antenna shall exhibit a peak gain of 9.64 dB

3.7.4 Transmission line length shall be 31 meters

3.7.5 Transmission line run shall be 21 meters vertical and 10 meters horizontal

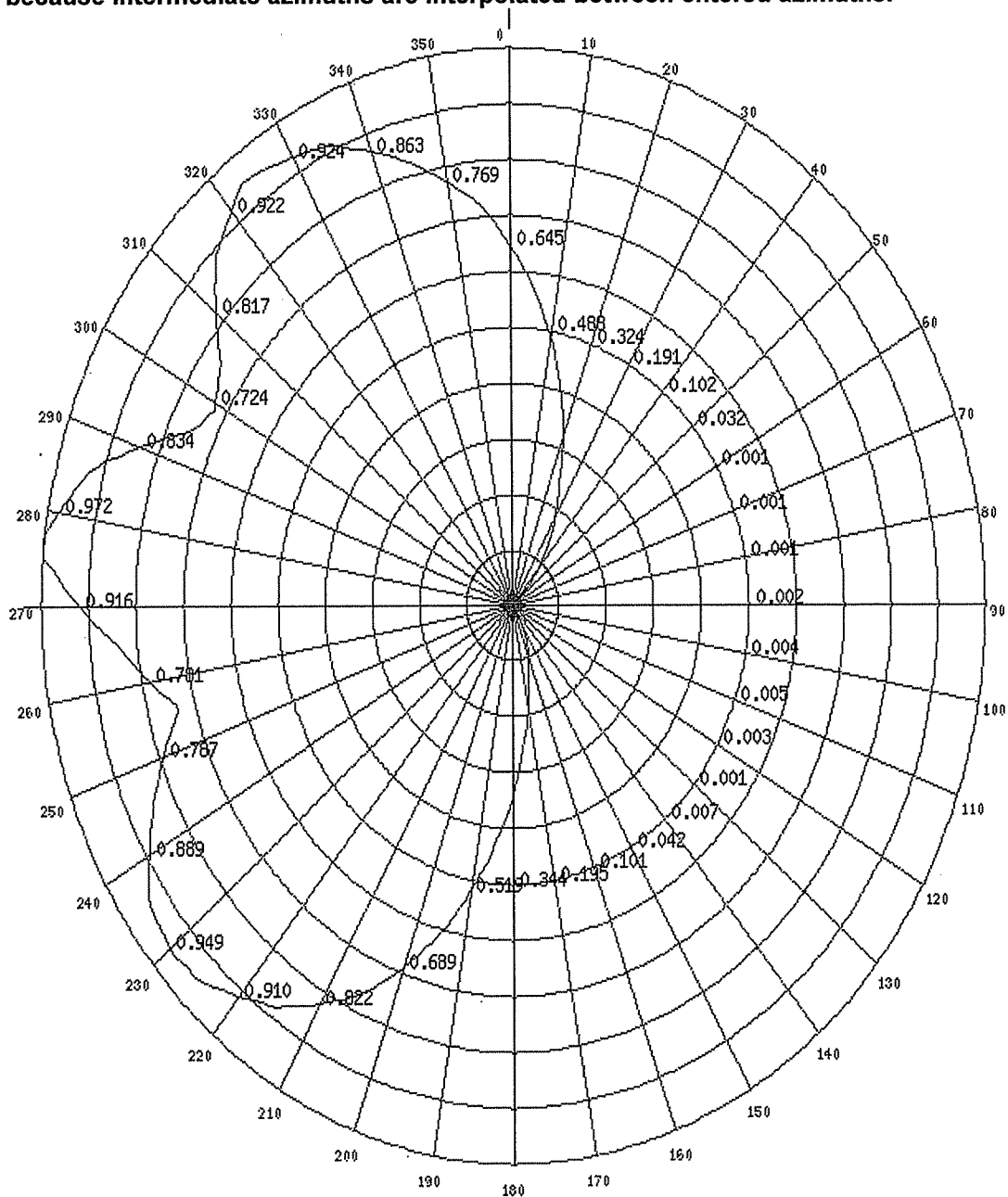
3.7.6 Connection to the transmitter shall be Type "N" connector

3.7.7 Directional Tabulation

c. Directional Antenna Relative Field Values: <input type="checkbox"/> N/A (Nondirectional or Directional "Off-the-shelf")											
Rotation (Degrees): 235 <input type="checkbox"/> No Rotation											
Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.939	10	0.839	20	0.735	30	0.839	40	0.994	50	0.926
60	0.743	70	0.751	80	0.883	90	0.942	100	0.907	110	0.819
120	0.719	130	0.57	140	0.407	150	0.241	160	0.14	170	0.063
180	0.001	190	0.001	200	0.001	210	0.001	220	0.002	230	0.006
240	0.005	250	0.001	260	0.001	270	0.013	280	0.071	290	0.131
300	0.259	310	0.428	320	0.609	330	0.768	340	0.875	350	0.944
Additional Azimuths		42	1	88	0.945	354	0.951	21	0.734	64	0.719

3.7.8 Directional Pattern

Any specified rotation has already been applied to the plotted pattern.
 Field strength values shown on a rotated pattern may differ from the listed values
 because intermediate azimuths are interpolated between entered azimuths.



4 Definitions

4.1 TPO – Transmitter Power Output

5 Options

5.1 Vendor shall provide pricing for an optional radome for each antenna

5.2 Heaters for anti-icing are not acceptable

6 Schedule of Delivery

6.1 Delivery for antennas is to begin in March 2008 and continue in April 2008 and conclude in May 2008.

7 Shipping and Delivery

7.1 Vendor shall provide shipping.

7.2 The receiving facility will be WNPB Studios

191 Scott Avenue

Morgantown, WV 26501

Attn: Brett Phillips

304-284-1496

7.3 Shipper shall provide 24 hours notice to arrange off-loading.

8 Invoicing, Billing and Payments

8.1 Invoicing shall be specific to each site, i.e, 7 different invoices shall be issued. Upon completion of antenna site installation and verification of operation for a specific site, payment for that individual site shall be issued.

8.2 Invoices shall be itemized.

8.3 The billing address is:

West Virginia Public Broadcasting

600 Capitol Street

Charleston, WV 25301

Attn: Steve Chapman

304-556-4900

EBA135 RFQ
West Virginia Educational Broadcasting
Digital Television Antenna Systems
Individual Site Quotations

3.1 Forks of Cacapon _____
Optional Radome _____

3.2 Mathias _____
Optional Radome _____

3.3 Parkersburg _____
Optional Radome _____

3.4 Romney _____
Optional Radome _____

3.5 Keyser _____
Optional Radome _____

3.6 Martinsburg _____
Optional Radome _____

3.7 Wardensville _____
Optional Radome _____

TOTAL of ALL SITES QUOTE without optional radomes _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

“Debt” means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers’ compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

“Debtor” means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. “Political subdivision” means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. “Related party” means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers’ compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State’s Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency’s policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor’s Name: _____

Authorized Signature: _____ Date: _____