

State of West Virginia RFQ EBA211

Submitted by Ed Deetscreek Sales Engineer Stainless LLC

15 June 2009

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PURCHASING DIVISION STATE OF WY



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

Request for Quotation FBA211

EBA211

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SHELLY MURRAY 304-558-8801

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215-631-1323 1140 WELSH ROAD STE 250

NORTH WALES PA 19454

*709005854

STAINLESS LLC

EDUCATIONAL BROADCASTING AUTHORITY 600 CAPITOL STREET

CHARLESTON, WV

25301-1223 304-558-3400

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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 fee.
- 5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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, the State may deem this contract null and void, and terminate such contract 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 Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 15. WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT: If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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 case 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. Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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

19454

Request for Quotation

REQ NUMBER EBA211

ADDRESS CORRESPONDENCE TO ATTENTION OF:

SHELLY MURRAY 304-558-8801

*709005854 215-631-1323 STAINLESS LLC 1140 WELSH ROAD STE 250

NORTH WALES PA

EDUCATIONAL BROADCASTING AUTHORITY 600 CAPITOL STREET

CHARLESTON, WV

25301-1223 304-558-3400 DATE PRINTED TERMS OF SALE SHIP VIA FOB. FREIGHT TERMS 05/21/2009 BID OPENING DATE: 06/16/2009 BID OPENING TIME

SHIP

01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT THE DIRECTOR OF PURCHASING RESERVES THE CANCELLATION: RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN. WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR FAYETTE COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT) ANY REFERENCES MADE TO ARBITRATION OR ARBITRATION: INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED. WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL. ALL OF THE INTEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT: (XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.) BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT. SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE

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ADDRESS CHANGES TO BE NOTED ABOVE



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

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DATE PRINTED TERMS OF SALE SHIP VIA FO.B. FREIGHT TERMS 05/21/2009 BID OPENING DATE: 06/16/2009 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. REV. 5/2009 NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BUYER: SHELLY MURRAY REQ. NO.: EBA211 BID OPENING DATE: 06/11/2009 BID OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE 631-1323



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Shelly Murray, Buyer
State of West Virginia, Dept. of Administration
2019 Washington Street East
P.O. Box 50130
Charleston, WV 25305-0130
Phone: 304-558-8801

Proposal Number P09 3068 001 RevA

Your Stainless Contact is: Ed Deetscreek 1140 Welsh Road, Suite 250 North Wales, PA 19454 Phone: 215-631-1323

Fax: 215-631-1425

Ed.Deetscreek@Stainlessllc.com

We Rise To Challenges Everyday

(Quotation valid 60 Days from Proposal Date)
All proposals are subject to final review and acceptance by Stainless, LLC



June 15, 2009

Shelly Murray, Buyer
State of WV, Department of Administration
2019 Washington Street East
P.O. Box 50130
Charleston, WV 25305-0130

Re:

Proposal # P09_3068_001_RevA Existing 378 ft. Stainless G-5 Tower

Location: Beckley, WV

Dear Shelly,

Stainless LLC is pleased to submit the following proposal for antenna and line removal and also antenna and line supply and install on your tower located at Beckley, WV as per your RFQ document EBA211.

Our contractor's License number for the State of West Virginia is WV036376 and expires on 3/29/2010. For this proposal we have not included any additional support steel for the new line install as the plan is to punch holes in the existing clip angles to accept the new line.

Should you have any questions regarding this proposal or need further information at this time, please don't hesitate to contact me at 215-631-1323.

Sincerely, Stainless LLC

Ed Deetscreek Sales Engineer

Attachment



PROPOSAL: EXHIBIT "A"

State of WV, Department of Administration 2019 Washington Street East P.O. Box 50130 Charleston, WV 25305-0130 Attention: Shelly Murray

Lot 1. Materials Supplied will include the following:

a. Dielectric THV-6A 10-R 3C140 Ch. 10 top mount antenna with galvanized steel pole and all material called out in Dielectric Quote number 2006379 (a copy accompanies this proposal)

Lot 2. <u>Services</u> will include installation of the items in Lot 1. Complete services are as follows:

- a. Mobilization
- b. Off load material and equipment
- c. Inventory Material
- d. Set up site and rig tower
- e. Install and jump gin pole
- f. Remove top mounted strobe and disconnect cable for reuse
- g. Remove Existing TW-15A9-R antenna and store on site (106' long and 9.6 tons)
- h. Remove existing 6 1/8" line approx. 400', stack and store on site
- i. Punch existing clip angles to accept 3 1/8"
- j. Install new 3 1/8" line approx. 400'
- k. Install new top mounted THV-6A10-R 3C140 D10 antenna, support pole, wedding cake adapter and elbow complex. Pole is 42' long and approx 8,000 #'s with a 4' wedding cake adapter on top. Antenna is 40.1' long and 10,200 #'s
- 1. Reinstall strobe light
- m. Lower and remove gin pole
- n. Perform Inspection of work completed, Clean up punch list and Document
- o. Down Rig and Clean up Site
- p. De-Mobilize

Notes:

- 1. All removed material to be neatly stacked on site for customer removal
- 2. Recommend structural analysis to support change.
- 3. Proposal assumes no power lines, utilities or standing water will interfere with installation of proposed materials.
- 4. Proposal includes transmission line routing but no additional steel material for line support.
- 5. Assumes mount for new support pole matches existing tower top.
- 6. Pricing includes final inspection/written report.
- 7. Pricing includes placing temporary strobe on tower top when existing top beacon is disabled.

PRICE FOR ALL SERVICES......\$ 594,149.00



PAYMENT TERMS:

40% due with signed Contract/Purchase Order (Down Payment) 40% payment due upon crew arrival to Customer's site Final Balance invoiced upon job completion

GENERAL NOTES:

- 1. This proposal is for labor as stated. Any additional work to be performed will be quoted on a cost plus or fixed price basis.
- 2. All work to be completed during daylight hours.
- 3. Price shown is f.o.b. tower site.
- 4. Power reduction on some antennas, as well as down time, should be expected during tower modifications.
- 5. Assumes no RF protective clothing is required.
- 6. Assumes service crews have full access to Customer's site and tower.
- 7. Erection is based on normal site access to base and guy anchors by two-wheel drive construction vehicles and the use of erection procedures and methods that have been employed in the industry for the last 50 years. Any conditions that alter or modify those conditions shall be cause for re-negotiation. A level, cleared area at the tower base for tower assembly and crane operation will be required.
- 8. Customer hereby agrees and acknowledges that Stainless LLC shall have no liability whatsoever to Customer or to others for any work or services performed by any persons other than Stainless LLC in connection with the implementation of any structural changes or modifications recommended by Stainless LLC.
- 9. TAXES: Seller's price do not include sales, use, excise of any other Federal, State or Municipal taxes that under applicable law Seller may legally collect from Buyer. Consequently, in addition to the prices specified herein, the amount of any present or future sales, use, excise or other tax applied directly to the products sold or the sale there under shall be paid by the Buyer where permitted under applicable law or in lieu thereof, the Buyer shall provide a tax exemption certificate acceptable to the taxing authorities.

Presented by: Stainless LLC

Ed Deetscreek Sales Engineer

Accepted by: State of WV

Shelly Murray, Buyer Or Authorized Representative

All agreements are subject to General Notes above and Stainless LLC Construction Agreement

CONSTRUCTION AGREEMENT

T	This TOWER CONSTRUCTION AGREEMENT (this "Agreement") is made this of	, 20 (the "Effective Date"),
by	y and between the State of West Virginia ("Customer") and Stainless LLC ("Contractor").	

Recitals

A. Customer wishes to retain the services of the Contractor for the purpose of tower construction at the Customer's tower facility as further set forth in this Agreement; and

B. Contractor wishes to provide such services to Customer and Customer wishes to engage Contractor, pursuant to the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree to the following terms and conditions:

Section 1: Definitions

In addition to the terms defined elsewhere in this Agreement, the following terms have the meanings set forth below:

"Purchase Order" means a Customer purchase order relating to the subject matter of this Agreement agreed to in writing by Contractor.

"Scope of Work" means the Scope of Work attached hereto, and by this reference incorporated herein, as signed by Customer and Contractor, as may be amended from time to time in accordance with this Agreement.

"Work" means the construction and services required by this Agreement, whether completed or partially completed, and includes, without limitation, all equipment, material, and labor provided or to be provided by Contractor under this Agreement.

Section 2: Scope of Work

2.1 Scope of Work

Contractor shall provide equipment, materials and qualified, experienced employees, professionals and others necessary for the performance of the Work described in the Scope of Work. Contractor reserves the right to make reasonable substitutions of labor or materials that are deemed necessary to facilitate the completion of the Work. Any substitutions that increase the cost to Customer require Customer's written consent by means of a Change Order executed in accordance with Section 2.2.

2.2 Change Orders.

- (A) Change in Work. Contractor and Customer contemplate the possibility that changes in the Work may be required. Any such change shall be done by way of a Change Order ("Change Order") specifically detailing the proposed change in the Work. Such changes may require an adjustment to the Contract Price to reflect the cost incurred or saved plus a reasonable profit allocable to the work performed, if applicable, or to the Contractor's time for performance hereunder, or both. Such adjustments shall be included in the Change Order to which the adjustments relate.
- (B) Additional Work. From time to time, Customer may request that Contractor perform work in addition to the Work contained in the Scope of Work. Each time that Customer requests Contractor to perform services which Contractor, in its reasonable discretion after consultation with Customer, deems to be such additional work, the Customer shall deliver to Contractor a written request describing in detail the requested additional work, and Contractor then shall prepare a Change Order for such work ("Additional Work") and deliver such proposed Change Order to Customer. Additional Work shall be performed on a time and materials basis at Contractor's then standard rates.
- (C) Acceptance and Effectiveness of Change Orders. The Customer shall, within ten (10) days after Customer's receipt of the proposed Change Order, notify Contractor whether Customer accepts such Change Order. If the Customer does not accept the proposed Change Order, or does not respond within the aforementioned ten (10) days, Contractor shall have no obligation to perform the Additional Work or change in the Work described in the proposed Change Order and Customer shall not have any obligation to pay Contractor for such work. Change Orders shall be effective only if in writing and signed by both parties, and when effective shall be deemed an amendment to the Scope of Work and shall be subject to the terms and conditions of this Agreement.
- 2.3 Order of Precedence. The parties hereby agree that in the event of any conflict between or among the terms of two or more of this Agreement, Scope of Work or Purchase Order, the order of precedence shall be this Agreement, Scope of Work and then Purchase Order; provided, however, a specified term in the Scope of Work or Purchase Order that expressly indicates that it supersedes a specific term of this Agreement, which term of this Agreement must be identified with particularity (i.e., by Section), shall take precedence.

Section 3: Payment and Fees

3.1 Compensation and Payment Schedule. Customer shall compensate Contractor in the total amount of \$_____ ("Contract Price") for Work performed under this Agreement, subject to adjustment in accordance with the terms of this Agreement, payable as defined in proposal:

40% is due upon execution of this Agreement ("Down Payment") 40% is due upon crew arrival to site Final Balance invoiced upon project completion

In addition to the Contract Price above, Customer shall compensate Contractor for Additional Work in accordance with the pricing set forth in the applicable Change Order, or for other Contract Price adjustments in accordance with Section 3.2. Contractor will invoice Customer monthly for fees and expenses associated with Additional Work and Contract Price adjustments. Customer shall pay each such invoice in full within 30 days from the invoice date.

- 3.2 <u>Price Adjustments</u>. The Contract Price is subject to change based on certain conditions, which are reasonably contemplated by the parties at the time of this Agreement and may include the following:
 - (A) Weather: The Contract Price includes labor but does not include Inclement Weather days as hereinafter defined. The Contract Price may be subject to an upward adjustment by Contractor for any Inclement Weather days. Each Inclement Weather day shall be calculated at the rate of \$450.00 per day, per man in the crew. All days lost due to Inclement Weather shall be reported to the Customer as soon thereafter as reasonably possible, but will have the effect of proportionately extending the number of days required to complete the Scope of Work. Notwithstanding the foregoing, it shall be understood that ground activities may continue even on Inclement Weather days if it is safe to conduct such activities. In the event of an extended weather delay, Customer and Contractor may mutually agree in writing to cease work and have crews return at a later date. Inclement Weather is based on local reports by the National Weather Service and industry experience and shall be defined as those days that in the reasonable discretion of Contractor's on-site supervisor are unsafe or ill advised to perform the Work. The Contractor agrees that the crew is to show up to the site and attempt to work for two hours on any day prior to submitting a claim for a weather related delay.
 - (B) Winter Weather The price(s) offered assumes the fieldwork will be done between the months of April and September. Fieldwork undertaken between the months of October and March will be subject to a Winter Weather adjustment. Any adjustment will be discussed with the owners' representatives and put into writing before any charges are incurred.
 - (C) <u>Transmission Line Removal</u> Contractor agrees to make "best efforts" regarding removal and storage of transmission line, to not cause damage or render the coax unusable. However, contractor cannot be held responsible for existing damage that may or may not be readily visible to the crew. Concerning heliax cable and waveguide, these types of transmission line do not generally lend themselves to relocation and it is highly likely that kinking or other damage may occur during the removal or coiling of the cables. Contractor will not be held responsible for damage due to removal or relocation.
 - (D) Materials and Information: The Contract Price is based on carrying out the Work in one continuous operation and does not contemplate interruption or delays due to missing information to be supplied by Customer or materials purchased separately by Customer, including but not limited to, necessary permits, coaxial lines, transmission line hangers, antenna, reflectors or electrical power. All materials to be furnished by Customer that are necessary for completion of the Work must be on the tower site prior to the commencement of tower erection or, in the alternative, scheduled in such a manner as to avoid delaying the erection crew. Customer must also furnish all requested information in a timely manner including, but not limited to, transmission line drawings (if necessary). The Contract Price may be subject to an upward adjustment including remobilization charges if the foregoing conditions are not met. Any such delay may have the effect of extending the number of days required to complete the Work.
 - (E) Outsourced material: Due to instability in the pricing of guy wires, steel and zinc (Galvanizing), our price assumes the project will be awarded in less than thirty (30) days. Our suppliers have advised us, that prices are valid for only fourteen (14) days from time of quote to receipt of order. Should additional time be required, price adjustments may be required. Contractor agrees to submit back-up documentation should a price increase be forthcoming.
 - (F) Access: The Contract Price does not contemplate site preparation, which is the obligation of Customer. Expenses incurred by a delay attributable to improper site preparation shall cause the Contract Price to be upwardly adjusted. Site preparation shall include all of the following if applicable to the Scope of Work:
 - (i) Provide one (1) tagline twenty-five (25) feet wide and equal in length to the proposed height of the tower, cleared of all obstructions in order to permit a truck to be driven thereon;
 - (ii) Clear a fire lane down each guy radial twenty-five (25) feet wide on each side of the guy line, extend this lane fifty (50) feet beyond the outer guy anchor; a ten (10) foot width of this fifty (50) feet wide fire lane must be cleared of all obstructions in order to permit a truck to be driven thereon;

- (iii) Grade the area immediately surrounding the tower in order to permit the use of trucks, cranes and other equipment that may be required to handle or erect the tower;
- (iv) Clear an area at least two hundred fifty (250) feet by two hundred fifty (250) feet adjacent to the base of the tower to permit unloading, sorting, assembling and work space;
- (v) Provide the necessary trusses to support the antenna during construction;
- (vi) Provide necessary fittings and any gases (i.e.: nitrogen) required to pressure check all the transmission lines;
- (vii) Provide electrical power to the base of the tower;
- (viii) Provide the necessary building and construction permits;
- (ix) Provide any police service necessary to direct traffic in the event the guy lines should cross a public or private road;
- (x) Provide toilet facilities if required by local, state or federal authorities; and
- (xi) Provide access to a telephone hookup.
- (xii) Temporarily lower or remove overhead power lines that impede or otherwise create an unsafe work site.
- (xiii) Remove and replace fencing around the tower base and guy anchors as necessary for the completion of the work.
- (xiv) Provide temporary storage for transmission line and/or small tools.

Customer understands that heavy equipment will be needed on site and rutting and disturbance of the sod and soil should be expected. Except to the extent expressly provided in the Scope of Work, Contractor will not provide any site restoration work and has made no financial allowance as part of the Work.

- (G) Foundations: The Contract Price is based on the Scope of Work. If the Scope of Work does not include foundations, Customer must complete the foundations prior to the start of Work and in accordance with Contractor's specifications, in such condition so as to permit continuous work by Contractor. When foundations are part of the Scope of Work, it is assumed and Customer warrants that site conditions will be as described in the Customer supplied Geo-technical Report. This report shall contain information such as soil strengths, water table, unit weights and any other pertinent design and construction data. Contractor shall have the right to rely on all information furnished by Customer in the preparation of foundation drawings and the installation of foundations. Blasting, cribbing, fill, removal of obstruction planking, snow, road, building, clearance for easy access to the site, existence of swamp, sand, mud, water and frozen ground conditions that are not included in the report may cause the Contract Price to be upwardly adjusted. The Contract Price may be adjusted to include additional cost incurred plus a reasonable profit allocable to the work performed after written notice and a reasonable opportunity to cure is provided to customer. The foundation price, if applicable, does not include surveying, clearing and grading of the tower site, profiles or grounding system.
- 3.3 <u>Late Payments</u>. Invoices shall be paid in full within 30 days from the date thereof, unless otherwise specified on the invoice and any amounts not paid by the due date will be deemed past due. Customer may be assessed a late charge equal to the lesser of 1.5% per month (or portion thereof) on any past due amount or the maximum allowed by applicable law. Additionally, Customer shall reimburse Contractor for all costs and expenses reasonably incurred by Contractor in efforts to collect past due amounts, including but not limited to, court costs and reasonable attorney's fees. If a payment is more than 90 days past due, Contractor has the immediate right to cease work and evacuate its site crew pending payment. Customer shall be responsible for all mobilization, re-rigging and remobilization costs. Additionally, such nonpayment shall have the effect of extending the number of days required to complete the Work.
- 3.4 <u>Taxes and Fees</u>. The Contract Price does not include any applicable taxes, permits or fees. In addition to the Contract Price, Customer shall pay all present and future foreign, federal, state and local taxes, permits and fees applicable to the construction, sale, purchase, transportation, delivery, storage or use of the deliverables included in the Work. To the extent Contractor is required to pay such taxes or fees, Customer shall reimburse these to Contractor within 30 days after receipt of invoice.
- 3.5 Security Interest To secure payment of all amounts which are or may be due to Contractor hereunder, Customer hereby: (i) grants to Contractor a security interest in all of Customer's right, title and interest in and to all products provided by Contractor to Customer under this Agreement and all "Proceeds" thereof (as such term is defined in the Uniform Commercial Code of Pennsylvania ("UCC")) (such products and Proceeds, collectively, the "Collateral") and (ii) irrevocably authorizes Contractor to execute and file financing statements and any amendments thereto on Customer's behalf with respect to such security interest. Customer will segregate or otherwise render easily identifiable all Proceeds. Customer will not grant a security interest in the Collateral to any other person, and will refrain from any act tending to impair Contractor's security interest in the Collateral. The Contractor shall have all the remedies and may exercise all the rights of secured party under the UCC or any other applicable law with respect to the Collateral. Contractor's rights and remedies under the UCC or otherwise pursuant to this Section are not intended to be exclusive of any other right or remedy.

Section 4: Delivery

- 4.1 <u>Time for Delivery</u>. Contractor shall commence Work upon payment of the Down Payment. Completion and delivery of the Work and deliverables shall be as set forth in the Scope of Work. Customer acknowledges and agrees that completion and delivery times are estimates and are subject to change based on weather, materials and crew availability, resource allocation and Customer delay in providing Contractor with information necessary to complete the Work.
- 4.2 <u>Force Majeure</u>. Contractor shall not be liable for any delay or failure to perform in the event of an act of God, strikes, walk-outs, material or labor restrictions by any governmental authority, civil riot, floods or any other cause not reasonably within Contractor's control.

Section 5: Warranty

5.1 Express Warranty. For a period of twelve (12) months from the date of completion of the Work, Contractor warrants that its product and/or service provided pursuant to this Agreement shall conform to the specifications and terms provided in this Agreement and the Scope of Work, and that such product and/or service provided hereunder will be free from defects in material and workmanship, except defects in the raw materials (including steel) supplied to Contractor by others, if applicable. Contractor makes no warranty with respect to those products or components thereof included in the deliverables and not manufactured by Contractor, but agree that Customer shall be entitled to any assignable benefits of any warranties given to Contractor by the manufacturers or suppliers of such products or components. This warranty is valid only if all of the following conditions have been satisfied:

Construction Agreement

- (i) Contractor receives written notice of any claimed defect within thirty (30) days of the time Customer learns or should have learned of the defect, whichever is earlier, but in no event later than twelve (12) months from the day the Work was completed;
- (ii) Customer affords Contractor a reasonable opportunity to inspect and examine the alleged defect; and
- (iii) Contractor determines, in its sole reasonable discretion, that the product and/or service is nonconforming or is defective as to material or workmanship which is not wholly or in part due to any misuse, improper maintenance, neglect, accident, vandalism, unauthorized repair or modification, defect in the raw materials or severe weather conditions.
- (iv) This limitation on the validity of warranties shall govern not only the express warranty made by Contractor herein, but also any other warranty that, contrary to the terms of this Agreement is deemed or implied by law to be in effect.
- (v) Stainless LLC may provide a final inspection to verify the work has been performed according to project specifications. This final inspection, and any subsequent "punch list" is to be scheduled, performed and delivered prior to Contractor's crew down-rigging the tower and demobilizing from the site. The Contractor assumes the responsibility to notify the customer of the anticipated substantial completion at least two (2) weeks in advance. It will be the Contractors responsibility to demonstrate that any punch list items have been completed.
- (vi) For Dielectric brand products only: For a period of five (5) years from the date of delivery for individual components, and ten (10) years from the date of delivery for a complete passive RF system. Contractor will, subject to the right to inspect such equipment, repair, or replace, at Contractor's sole discretion, such warranted equipment which is returned to Contractor's factory, transportation prepaid. The foregoing shall apply only if Contractor receives prompt written notice of any alleged defect, the equipment has been operated in accordance with Dielectric's instruction manual and Dielectric's examination discloses that such equipment has not been damaged through accident or negligence, misuse, alteration, or improper maintenance, repair or installation. If Contractor fails to repair or replace any defective parts, Customer agrees that the exclusive measure of damages shall be the reasonable costs of the aforesaid repair or replacement of the defective parts at the time. For the purposes of this paragraph, a "complete passive RF system" shall be the sum of all RF components, including all equipment from the output terminals of the associated transmitter through the transmitting antenna, including but not limited to the switching systems, filters, notch diplexers, station test loads, reject loads, transmission line, transmission line hangers, waveguide, dehydrators, and antenna purchased at the same time by Customer from Contractor or Dielectric.

Subject to the foregoing conditions contained in paragraph D, and the contractor is awarded the original installation of the subject transmission line, the Warranty to include labor to replace the damaged pieces, providing the following conditions are met; 1) The Contractor is engaged by the Customer to perform an annual inspection of the tower at the prevailing and then current rates, 2) if a failure occurs, the Contractor is allowed to inspect the system prior to removal of affected pieces and, 3) Contractor is given the opportunity to effect repairs.

5.2 Warranty Limitation. THE WARRANTY SET FORTH IN SECTION 5.1 IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES OF MERCHANTABILITY. EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH IN SECTION 5.1, CONTRACTOR HEREBY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF DEALING OR COURSE OF PERFORMANCE. Contractor shall not be obligated to change, modify or repair any of its Work due to a Customer change in loading configuration of the structure. Contractor shall have no obligation to change, modify or improve any of its Work to conform to changes in design, manufacture or engineering standards or customs, which occur after the date of this Agreement. Contractor's performance shall be judged in accordance with the standards and customs that were generally accepted in the tower design industry as of the Effective Date of this Agreement. This Section 5.2 shall survive the termination or expiration of this Agreement.

Section 6: Limitations of Liability

Notwithstanding anything herein to the contrary, Contractor shall not be liable to Customer or any third party for any special, incidental, indirect, or consequential damages for breach of this Agreement. This Section 6 shall survive the termination or expiration of this Agreement.

Section 7: Insurance

Contractor will secure and maintain at its sole cost and expense during the term of this Agreement Comprehensive General Liability Insurance and Umbrella Liability Insurance in the amount of ten million dollars (\$10,000,000.00), Worker's Compensation Insurance at statutory limits and fleet and automobile insurance in the amount of one million dollars (\$1,000,000.00) naming Customer as an additional insured.

Section 8: Events of Default

Should either party fail to perform any material obligation or observe any material term or covenant or condition under this Agreement after ten (30) thirty days written notice thereof, sent in accordance with Section 11.7, such failure shall be deemed an Event of Default. The non-defaulting party shall have the option of terminating this Agreement, is entitled to recover any damages sustained as a result of the breach including, but not limited to, expectation damages, court costs and reasonable attorney's fees and may avail themselves of any remedy available at law or in equity. These remedies shall be cumulative and not in the alternative. The foregoing remedies shall not include damages for actual or anticipated revenues due to loss of airtime or damage to business reputation.

Section 9: Non-Solicitation of Contractor Employees

For a period commencing on the Effective Date and ending on the later of (i) the date that is one (1) year from the Effective Date of this Agreement or (ii) six (6) months from the date Work is completed, Customer agrees not to solicit for employment or employ any person who is an employee of Contractor or influence or attempt to influence any employee of Contractor to terminate his/her employment.

Section 10: Dispute Resolution

In the event of dispute, controversy or claim of any kind or nature arising under or in connection with this Agreement (a "Dispute"), the party initiating the Dispute shall notify the other party in writing of the specific subject(s) of the Dispute and the parties shall negotiate in good faith to resolve the Dispute ("Dispute Negotiation"). If the parties are unable to resolve the Dispute within fourteen (14) days following such written notice. the Dispute promptly shall be submitted to arbitration; except that arbitration shall not be required for any Dispute where the amount in controversy is greater than the sum or value of \$50,000. The arbitration will be conducted in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association ("AAA Rules") currently in effect unless the parties mutually agree otherwise. Notwithstanding any provision of the AAA Rules, any such arbitration will be conducted before and decided by one arbitrator. The parties to the arbitration will request that the American Arbitration Association provide the parties with a list of five potential arbitrators, none of whom has previously been employed by either party and does not have a direct or indirect interest in either party or the subject matter of the arbitration. Each party will then strike from the list names one after another until one name is left. After the rights to strike are exercised, the individual remaining on the list will be the arbitrator. The award rendered by the arbitrator(s) shall be final and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof. In no event shall the demand for arbitration be made after the date when institution of legal or equitable proceedings based on such Dispute would be barred by the applicable statute of limitations, unless the Dispute Negotiation with respect to such Dispute commenced prior to the expiration of such applicable statute of limitation. If arbitration is invoked in accordance with the provisions of this Agreement, the Prevailing Party in the arbitration will be entitled to recover from the other all costs, fees, and expenses pertaining or attributable to such arbitration, including reasonable attorneys' fees. A party will be considered the "Prevailing Party" if (a) it initiated the Dispute and substantially obtained the relief it sought, either through a judgment or arbitration award or the losing party's voluntary action before arbitration, trial, or judgment, (b) the other party withdraws its action without substantially obtaining the relief it sought, or (c) such party did not initiate the Dispute and judgment is entered into for any party, but without substantially granting the relief sought by the initiating party or granting more substantial relief to the noninitiating party with respect to any counterclaim asserted by the non-initiating party in connection with such litigation.

Section 11: General

- 11.1 <u>Section Headings</u>. The section headings contained in this Agreement are inserted as a matter of convenience and are for reference only and in no way define, limit or describe the scope or intent of this Agreement or in any way affect the interpretation of the terms and provisions hereof.
- 11.2 Waiver of Rights. Neither party's exercise of any right hereunder, nor its delay or failure to do so, shall constitute a waiver of such right or any other right hereunder nor shall any right be deemed to have been waived unless the waiver be in writing and signed by a duly authorized officer of Contractor or Customer.
- 11.3 Governing Law and Venue. The laws of the Commonwealth of Pennsylvania shall govern the validity, performance and enforcement of this Agreement. Any controversy, dispute or claim under, arising out of or in relation to this Agreement shall be arbitrated or adjudicated in Philadelphia, Pennsylvania.

- 11.4 <u>Integration</u>. This Agreement represents the entire agreement of the parties with respect to the subject matter hereof. All agreements entered into prior hereto are revoked and superseded by this Agreement. Except as expressly set forth herein, the parties have made no representations, warranties, inducements or oral agreements. This Agreement may not be changed, modified assigned or rescinded except in writing and signed by all parties hereto; any attempt at oral modifications of this Agreement shall be null and void.
- 11.5 <u>Authority</u>. Each party represents by signing this Agreement that they have the authority to enter into the same and binds each party, their heirs, successors, assigned fellow beneficiaries in trust and/or partners to the terms and conditions as herein set forth.
- 11.6 <u>Cancellation</u>. Customer may cancel the project with notice in writing. Contractor is entitled to recovery of all expenses and financial commitments in the normal course of business, including margin and/or mark-up for the work-completed prior to receipt of notice of cancellation. Materials may be subject to a 100% re-stocking fee.
- 11.7 Notices. Any notice or other communication hereunder must be given in writing and (a) delivered in person, (b) transmitted by facsimile or other telecommunications mechanism or (c) mailed by certified or registered mail or nationally recognized courier service, postage prepaid, receipt requested, as follows:

If to Contractor, address to:

Stainless LLC.
1140 Welsh Road
Suite 250
North Wales, PA 19454
Attn: Contract Administrator
Fax (215) 631-1425

If to Customer, address to:

IN WITNESS WHEREOF, the parties have executed this Agreement as of the Effective Date.

or to such other address or to such other person as either party shall have last designated by such notice to the other party. If such notice is submitted by fax, a hard copy addressed to the appropriate party must follow.

11.8 <u>Counterparts</u>. This Agreement may be executed and delivered by facsimile machine and in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

[Signatures follow]

CUSTOMER:	CONTRACTOR:
State of West Virgina	STAINLESS LLC
By:	By:

 Name:
 Name:

 Title:
 Title:

TECH PROP



Call Letters:

C-02852-2 WSWP-DT Antenna Type:

Location:

THV-6A10-R 3C140

GRANDVIEW, WV

Channel;

10 DTV

Electrical Specifications			Valu		Remarks				
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		Vpol	1						
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Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center of Basic Wind Speed	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft	TIA/EIA-222-F.	86.1 ft			
Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center o Basic Wind Speed	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3 V CaAc	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft	TIA/EIA-222-F.	90.1 ft 86.1 ft			
Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center o Basic Wind Speed Force Coeff, x Pro Moment Arm	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3 V CaAc D1	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m 112.7 km/h	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft 70 mi/h	TIA/EIA-222-F. Above tower top	90.1 ft 86.1 ft 67.9 ft			
Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center o Basic Wind Speed Force Coeff, x Pro Moment Arm Force Coeff, x Pro	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3 V CaAc	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m 112.7 km/h	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft 70 mi/h 57.5 ft²	TIA/EIA-222-F. Above tower top Above base flange	90.1 ft 86.1 ft 67.9 ft 115.0 ft ²			
Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center o Basic Wind Speed Force Coeff, x Pro Moment Arm Force Coeff, x Pro	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3 V CaAc D1	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m 112.7 km/h 5.3 m ² 6.6 m	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft 70 mi/h 57.5 ft² 21.8 ft	TIA/EIA-222-F. Above tower top Above base flange	90.1 ft 86.1 ft 67.9 ft 115.0 ft ²			
Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center o Basic Wind Speed Force Coeff, x Pro Moment Arm Force Coeff, x Pro Moment Arm	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3 V CaAc D1 CaAc	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m 112.7 km/h 5.3 m ² 6.6 m m ²	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft 70 mi/h 57.5 ft² 21.8 ft ft²	TIA/EIA-222-F. Above tower top Above base flange	90.1 ft 86.1 ft 67.9 ft 115.0 ft ²			
Patterns Mechanical S Height with Lightr Height Less Lightr Height of Center o Basic Wind Speed Force Coeff, x Pro Moment Arm Force Coeff, x Pro	Azimuth Elevation Specifications ning Protector ning Protector of Radiation	H2 H3 V CaAc D1 CaAc D3	3C140 06V060075 Metric 13.4 m 12.2 m 7.0 m 112.7 km/h 5.3 m ² 6.6 m m ² m	06V060075-90 English 44.1 ft 40.1 ft 21.9 ft 70 mi/h 57.5 ft² 21.8 ft ft² ft	TIA/EIA-222-F. Above tower top Above base flange	90.1 ft 86.1 ft 67.9 ft 115.0 ft ²			

NOTE:

Prepared By:

JBC

TLB

Approved By:

KWC

Original Date:

8-Aug-07

Revision: 2

Rev. Date:

11-May-09

JBC

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Jim

Chadwick Chadwick, C = US Chadwick, C =

Call Letters:

C-02852-2

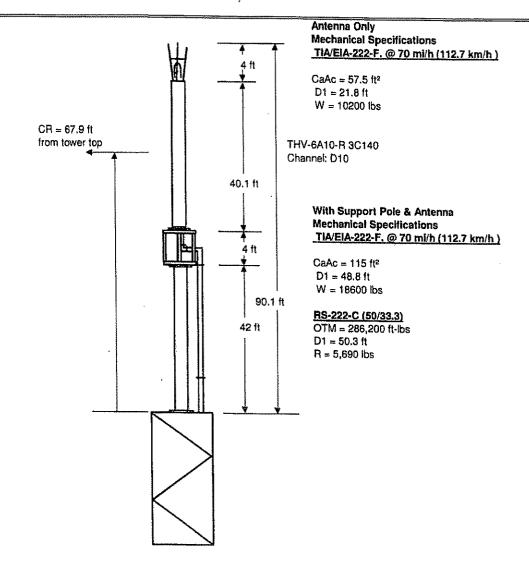
Antenna Type: WSWP-DT

Location:

THV-6A10-R 3C140 GRANDVIEW, WV

Channel:

10 DTV



JBC-082108-1

Not to Scale



Proposal Number

C-02852

Revision:

2

Date

Call Letters

11-May-09 WSWP-DT

Channel 10

Location

GRANDVIEW, WV

Customer

Antenna Type

THV-6A10-R 3C140

DTV SYSTEM SUMMARY

Antenna:

Type:

THV-6A10-R 3C140

H Pol

ERP:

24.0 kW (13.80 dBk)

Channel: Location:

10 **GRANDVIEW, WV** Peak Gain*: Input Power:

8.40 2.9 kW

(9.24 dB) (4.56 dBk)

Transmission Line:

Type:

EIA/DCA

Attenuation:

0.61 dB

Size:

Length:

Impedance:

3-1/8 in

50 ohm

450 ft

Efficiency:

86.9%

137.2 m

Transmitter:

Power Required:

3.3 kW

(5.17 dBk)

* Gain is with respect to half wave dipole.



Degrees Below Horizontal

Proposal Number

C-02852

Revision:

2

Call Letters

Date

11-May-09 WSWP-DT

Channel

10

Location Customer

Antenna Type

THV-6A10-R 3C140

GRANDVIEW, WV

ELEVATION PATTERN

RMS Gain at Main Lobe 6.00 (7.78 dB) Beam Tilt 0.75 deg 5.90 (7.71 dB) RMS Gain at Horizontal Frequency 195.00 MHz Calculated Calculated / Measured 06V060075 Drawing # 0.9 8.0 0.7 0.5 0.4 0.3 0.2 0.1 -3 -2 0 3 5 6 10 11

Dielectric

Proposal Number

C-02852

Revision:

Channel

2

Date

Call Letters

Antenna Type

11-May-09 WSWP-DT

10

Location

Customer

GRANDVIEW, WV

THV-6A10-R 3C140

ELEVATION PATTERN

RMS Gain at Main Lobe RMS Gain at Horizontal

6.00 (7.78 dB) 5.90 (7.71 dB)

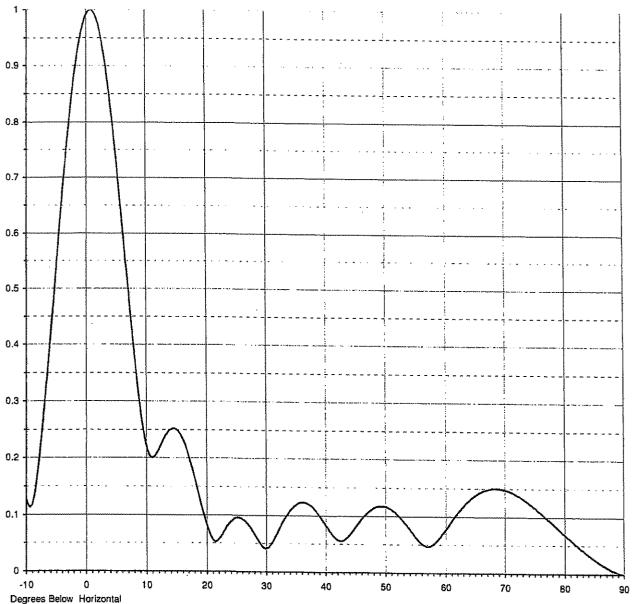
Beam Tilt Frequency 0.75 deg 195.00 MHz

Calculated / Measured

Calculated

Drawing #

06V060075-90



Dielectric

Proposal Number

C-02852

Revision:

2

Date

11-May-09 WSWP-DT

Channel

10

Call Letters Location

GRANDVIEW, WV

Customer

Antenna Type

THV-6A10-R 3C140

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #:

06V060075-90

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.126	2.4	0.958	10.6	0.205	30.5	0.043	51.0	0.113	71.5	0.142
-9.5	0.114	2.6	0.947	10.8	0.202	31.0	0.050	51.5	0.109	72.0	0.139
-9.0	0.119	2.8	0.935	11.0	0.200	31.5	0.059	52.0	0.104	72.5	0.136
-8.5	0.143	3.0	0.922	11.5	0.203	32.0	0.069	52.5	0.099	73.0	0.132
-8.0	0.184	3.2	0.908	12.0	0.212	32.5	0.080	53.0	0.092	73.5	0.129
-7.5	0.234	3.4	0.893	12.5	0.223	33.0	0.090	53.5	0.086	74.0	0.125
-7.0	0.291	3.6	0.876	13.0	0.234	33.5	0.099	54.0	0.079	74.5	0.121
-6,5	0.353	3.8	0.859	13.5	0.243	34.0	0.107	54.5	0.072	75.0	0.117
-6.0	0.416	4.0	0.842	14.0	0.250	34.5	0.113	55.0	0.065	75.5	0.112
-5.5	0.481	4.2	0.823	14.5	0.252	35.0	0.118	55.5	0.058	76.0	0.108
-5.0	0.547	4.4	0.803	15.0	0.251	35.5	0.122	56.0	0.053	76.5	0.103
-4.5	0.611	4.6	0.783	15.5	0.245	36.0	0.123	56.5	0.049	77.0	0.098
-4.0	0.673	4.8	0.762	16.0	0.236	36.5	0.123	57.0	0.047	77.5	0.094
-3.5	0.731	5.0	0.740	16.5	0.224	37.0	0.121	57.5	0.047	78.0	0.089
-3.0	0.786	5.2	0.718	17.0	0.208	37.5	0.118	58.0	0.050	78.5	0.084
-2.8	0.807	5.4	0.695	17.5	0.190	38.0	0.114	58.5	0.055	79.0	0.079
-2.6	0.827	5.6	0.672	18.0	0.170	38.5	0.108	59.0	0.061	79.5	0.074
-2.4	0.846	5.8	0.649	18.5	0.149	39.0	0.101	59.5	0.068	80.0	0.069
-2.2	0.864	6.0	0.625	19.0	0.128	39.5	0.093	60.0	0.075	80.5	0.064
-2.0	0.881	6.2	0.601	19.5	0.107	40.0	0.085	60.5	0.082	81.0	0.060
-1.8	0.897	6.4	0.577	20.0	0.087	40.5	0.077	61.0	0.090	81.5	0.055
-1.6	0.912	6.6	0.552	20.5	0.070	41.0	0.069	61.5	0.097	82.0	0.050
-1.4	0.926	6.8	0.528	21.0	0.058	41.5	0.063	62.0	0.104	82.5	0.046
-1.2	0.939	7.0	0.504	21.5	0.053	42.0	0.058	62.5	0.111	83.0	0.042
-1.0	0.950	7.2	0.480	22.0	0.056	42.5	0.056	63.0	0.117	83.5	0.037
-0.8	0.961	7.4	0.456	22.5	0.063	43.0	0.056	63.5	0.123	84.0	0.033
-0.6	0.970	7.6	0.433	23.0	0.072	43.5	0.060	64.0	0.128	84.5	0.029
-0.4	0.978	7.8	0.410	23.5	0.080	44.0	0.065	64.5	0.134	85.0	0.025
-0.2	0.985	8.0	0.387	24.0	0.087	44.5	0.072	65.0	0.138	85.5	0.022
0.0	0.991	8.2	0.366	24.5	0.092	45.0	0.079	65.5	0.141	86.0	0.018
0.2	0.995	8.4	0.345	25.0	0.095	45.5	0.086	66.0	0.144	86.5	0.015
0.4	0.998	8.6	0.325	25.5	0.095	46.0	0.093	66.5	0.146	87.0	0.012
0.6	1.000	8.8	0.306	26.0	0.094	46.5	0.100	67.0	0.148	87.5	0.009
0.8	1.000	9.0	0.288	26.5	0.090	47.0	0.105	67.5	0.149	88.0	0.006
1.0	0.999	9.2	0.271	27.0	0.084	47.5	0.110	68.0	0.150	88.5	0.004
1.2	0.997	9.4	0.256	27.5	0.077	48.0	0.114	68.5	0.150	89.0	0.002
1.4	0.993	9.6	0.243	28.0	0.068	48.5	0.116	69.0	0.150	89.5	0.001
1.6	0.989	9.8	0.237	28.5	0.059	49.0	0.118	69.5	0.149	90.0	0.000
1.8	0.983	10.0	0.226	29.0	0.051	49.5	0.118	70.0	0.148		
2.0	0.976	10.2	0.217	29.5	0.044	50.0	0.117	70.5	0.146	"	
2.2	0.967	10.4	0.210	30.0	0.041	50.5	0.115	71.0	0.144	7	

Dielectric

Proposal Number

C-02852

Revision:

Date Call Letters 11-May-09 WSWP-DT

Channel

10

Location

Customer Antenna Type **GRANDVIEW, WV**

THV-6A10-R 3C140

AZIMUTH PATTERN

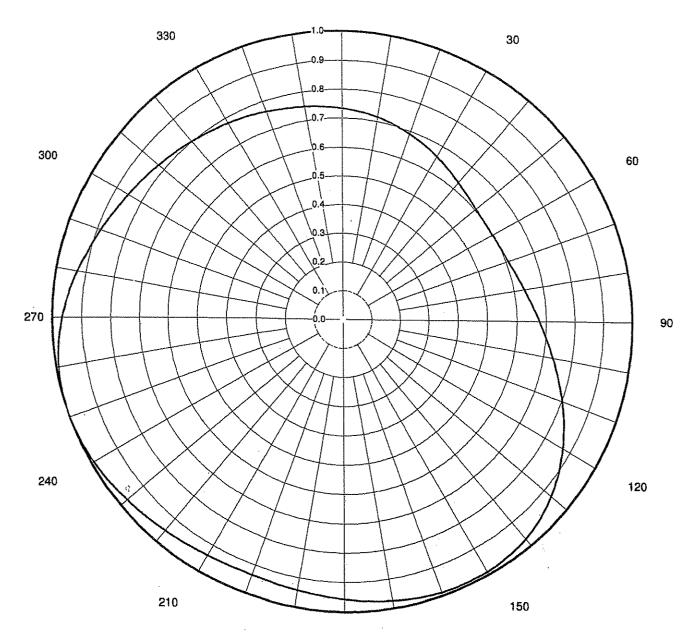
Gain 1.40 Calculated / Measured (1.46 dB) Calculated

Frequency Drawing #

195.00 MHz

3C140

0





Proposal Number

Date

C-02852 11-May-09

Revision:

2

Call Letters

WSWP-DT

Channel

10

Location Customer

Antenna Type

THV-6A10-R 3C140

GRANDVIEW, WV

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #:

3C140

0 0.733 45 0.614 90 0.676 135 0.954 180 0.957 225 0.961 270 0.665 315 0.812 1 0.732 46 0.612 91 0.681 136 0.958 181 0.955 226 0.963 271 0.962 316 0.809 2 0.730 47 0.610 92 0.686 137 0.962 182 0.953 227 0.965 272 0.959 317 0.807 3 0.729 48 0.608 93 0.692 183 0.965 183 0.952 228 0.967 273 0.955 318 0.805 5 0.725 50 0.605 94 0.697 199 0.968 184 0.950 229 0.970 274 0.951 319 0.805 5 0.725 50 0.605 99 0.703 140 0.972 185 0.949 230 0.972 275 0.947 320 0.861 6 0.725 51 0.603 98 0.709 141 0.974 186 0.947 231 0.974 276 0.944 321 0.799 7 0.721 52 0.602 97 0.715 142 0.977 187 0.944 233 0.976 277 0.944 0.322 0.796 277 0.791 53 0.601 98 0.721 143 0.979 188 0.944 233 0.976 277 0.940 322 0.794 9 0.715 54 0.660 99 0.727 144 0.982 189 0.944 233 0.978 278 0.936 232 0.794 9 0.715 55 0.599 100 0.733 145 0.982 189 0.944 233 0.978 278 0.936 232 0.794 11 0.713 56 0.598 101 0.746 145 0.983 189 0.942 235 0.982 280 0.928 325 0.780 11 0.715 57 0.598 101 0.746 147 0.987 187 0.944 236 0.994 281 0.924 236 0.994 12 0.795 12 0.796 277 0.949 0.795 277 0.949 0.795 277 0.795 0.995 0.795 12 0.995 12 0.	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
1 0.782 46 0.612 91 0.681 198 0.988 181 0.953 226 0.986 271 0.982 318 0.963 3 0.729 48 0.008 33 0.692 138 0.965 183 0.965 228 0.997 273 0.985 317 0.803 4 0.727 49 0.606 94 0.697 139 0.986 184 0.950 229 0.970 274 0.961 139 0.986 184 0.950 229 0.970 274 0.961 319 0.986 184 0.942 230 0.972 276 0.944 321 0.974 276 0.944 321 0.974 276 0.944 323 0.974 276 0.944 321 0.980 222 0.986 237 0.944 231 0.982 229 0.996 227 0.944 231 0.986 232 0.989 192	0		45	0.614	90	0.676	135	0.954		0.957						
2 0.730 47 0.610 92 0.686 137 0.962 182 0.955 227 0.956 272 0.959 317 0.507 3 0.727 49 0.606 93 0.6892 138 0.965 183 0.965 228 0.967 273 0.555 318 0.805 4 0.727 49 0.606 94 0.687 159 0.968 184 0.950 229 0.970 274 0.951 319 0.803 5 0.725 50 0.605 55 0.703 140 0.972 185 0.949 230 0.972 275 0.947 320 0.801 6 0.723 51 0.803 96 0.709 141 0.974 186 0.949 230 0.972 275 0.947 320 0.801 7 0.721 52 0.602 97 0.715 142 0.977 187 0.946 232 0.976 277 0.940 322 0.796 8 0.719 53 0.601 98 0.727 144 0.982 189 0.944 233 0.978 278 0.993 232 0.794 9 0.717 54 0.600 99 0.727 144 0.982 189 0.943 234 0.980 279 0.932 234 0.794 11 0.713 56 0.598 101 0.740 146 0.985 191 0.941 235 0.982 280 0.922 280 0.922 280 0.922 280 0.922 280 0.928 282 0.790 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.918 325 0.790 13 0.709 58 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.918 322 0.786 14 0.706 59 0.598 104 0.755 148 0.988 193 0.939 238 0.998 283 0.916 322 0.784 15 0.704 60 0.598 104 0.755 148 0.989 194 0.938 238 0.998 283 0.911 322 0.786 16 0.704 60 0.598 104 0.756 149 0.999 194 0.938 239 0.990 284 0.911 322 0.786 17 0.898 62 0.598 107 0.780 152 0.991 197 0.936 241 0.993 286 0.907 330 0.781 18 0.896 63 0.598 100 0.797 155 0.991 197 0.936 241 0.993 286 0.907 330 0.781 19 0.693 64 0.600 109 0.794 155 0.991 197 0.936 242 0.994 287 0.899 332 0.777 18 0.896 63 0.599 108 0.806 155 0.991 198 0.935 243 0.994 289 0.891 334 0.773 20 0.690 65 0.601 111 0.801 155 0.991 198 0.935 243 0.995 284 0.995 332 0.777 18 0.695 64 0.600 110 0.801 155 0.991 197 0.936 241 0.993 286 0.893 330 0.778 19 0.695 64 0.600 111 0.801 155 0.991 197 0.936 242 0.994 287 0.899 332 0.777 18 0.696 77 0.608 112 0.815 157 0.990 202 0.934 245 0.994 287 0.899 333 0.778 22 0.689 72 0.612 117 0.850 162 0.995 203 0.934 245 0.999 289 0.881 334 0.773 23 0.689 72 0.602 111 0.809 156 0.995 209 0.935 285 0.997 301 0.889 330 0.776 24 0.676 9 0.660 114 0.897 166 0.995 209 0.938 285 0.999 289 0.881 334 0.753 33 0.649 78 0.662 120 0.884 167 0.995 220 0.933 285 0.999 289 0.881 330	1	0.732	46	0.612	91	0.681	136	0.958	181	0.955						
3 0.729 48 0.608 93 0.692 138 0.965 183 0.952 228 0.967 273 0.955 318 0.805 5 0.725 50 0.605 94 0.697 139 0.968 184 0.950 229 0.970 274 0.961 319 0.803 5 0.725 50 0.605 95 0.703 140 0.972 185 0.949 230 0.972 275 0.947 320 0.801 6 0.723 51 0.603 96 0.709 141 0.974 186 0.947 231 0.974 276 0.944 321 0.709 7 0.721 52 0.600 97 0.715 142 0.977 187 0.946 232 0.976 277 0.940 322 0.796 8 0.719 53 0.601 98 0.721 143 0.977 187 0.946 232 0.976 277 0.940 322 0.796 10 0.715 55 0.599 100 0.733 145 0.983 190 0.942 235 0.982 279 0.982 324 0.792 11 0.715 55 0.599 100 0.733 145 0.983 190 0.942 235 0.982 289 0.922 325 0.794 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.919 327 0.786 13 0.709 58 0.598 103 0.758 148 0.988 193 0.939 238 0.988 283 0.915 325 0.784 14 0.706 59 0.598 104 0.758 149 0.989 194 0.938 239 0.990 284 0.911 322 0.784 15 0.704 60 0.598 104 0.758 149 0.989 194 0.938 239 0.990 284 0.911 322 0.784 16 0.701 61 0.598 106 0.773 151 0.990 196 0.935 241 0.990 286 0.903 331 0.787 17 0.688 62 0.588 107 0.768 150 0.990 195 0.937 240 0.991 285 0.903 331 0.779 18 0.696 62 0.588 107 0.768 150 0.991 197 0.936 241 0.994 287 0.899 322 0.7791 19 0.693 64 0.600 109 0.794 154 0.991 199 0.935 244 0.996 289 0.891 330 0.775 19 0.693 65 0.601 110 0.801 155 0.991 190 0.932 244 0.996 289 0.881 33 0.775 19 0.693 65 0.601 110 0.801 155 0.991 190 0.934 246 0.997 290 0.887 335 0.775 20 0.680 65 0.601 110 0.801 155 0.991 190 0.935 244 0.996 289 0.881 334 0.773 21 0.687 66 0.602 111 0.882 159 0.996 20 0.935 244 0.999 292 0.880 3.7076 22 0.684 67 0.603 112 0.815 157 0.990 20 0.935 250 1.000 297 0.862 342 0.799 23 0.681 68 0.605 114 0.829 159 0.986 20 0.935 250 1.000 297 0.862 342 0.793 24 0.687 77 0.608 115 0.887 160 0.988 20 0.993 250 0.883 350 0.776 25 0.687 77 0.608 115 0.887 180 0.996 20 0.995 284 0.991 290 0.887 355 0.776 26 0.687 77 0.608 115 0.887 180 0.996 20 0.995 285 0.907 30 0.883 350 0.776 27 0.688 65 0.600 110 0.801 155 0.991 190 0.935 250 0.997 30 0.883 350 0.776 33 0.685 77 0.608 115 0.887 180 0.996 29 0.995 30 0	2	0.730	47	0.610	92	0.686	137	0.962		0.953	227				·	
4 0.727 49 0.666 94 0.697 139 0.988 184 0.950 229 0.970 274 0.951 319 0.803 6 0.723 51 0.603 96 0.709 141 0.974 185 0.948 231 0.972 275 0.944 321 0.797 276 0.943 231 0.972 275 0.947 320 0.801 7 0.721 52 0.602 97 0.715 142 0.977 187 0.946 232 0.976 277 0.940 322 0.796 8 0.719 53 0.601 98 0.721 144 0.982 189 0.942 235 0.982 280 0.982 232 0.796 10 0.715 56 0.598 100 0.740 140 0.985 191 0.941 237 0.986 282 0.991 227 0.786 11	3		48	0.608	93	0.692	138	0.965	183							
5 0.725 50 0.605 95 0.709 140 0.972 185 0.948 230 0.972 275 0.947 320 0.801 7 0.721 52 0.602 97 0.715 142 0.977 187 0.946 232 0.976 277 0.944 321 0.978 278 0.944 321 0.978 277 0.944 321 0.798 277 0.944 232 0.978 277 0.944 232 0.978 277 0.940 322 0.798 0.719 53 0.601 98 0.721 143 0.992 188 0.944 233 0.978 278 0.992 322 0.798 10 0.715 55 0.599 100 0.733 145 0.982 191 0.941 235 0.984 281 0.992 226 0.786 11 0.711 57 0.598 102 0.746 147	4	0.727	49	0.606	94	0.697	139	0.968	184	0.950	229	··	•			
6 0.723 51 0.803 96 0.709 141 0.974 186 0.947 231 0.974 276 0.944 321 0.799 8 0.771 52 0.802 97 0.715 142 0.977 187 0.946 232 0.976 277 0.940 322 0.796 8 0.719 53 0.801 98 0.721 143 0.979 188 0.944 233 0.978 278 0.940 322 0.796 9 0.717 54 0.800 99 0.727 144 0.982 189 0.943 224 0.980 279 0.932 324 0.792 110 0.715 55 0.599 100 0.739 145 0.983 190 0.942 235 0.982 280 0.982 326 0.790 111 0.713 56 0.598 101 0.740 146 0.985 191 0.941 236 0.984 281 0.928 326 0.786 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.919 327 0.786 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.919 327 0.786 14 0.709 58 0.588 103 0.753 148 0.988 193 0.939 238 0.988 283 0.915 328 0.784 14 0.706 59 0.598 104 0.759 149 0.989 194 0.933 239 0.990 284 0.911 329 0.786 15 0.704 60 0.598 105 0.766 150 0.990 195 0.937 240 0.991 285 0.907 330 0.781 16 0.701 61 0.598 106 0.773 151 0.990 196 0.935 241 0.993 285 0.990 332 0.775 18 0.598 62 0.598 107 0.780 152 0.991 197 0.936 242 0.994 287 0.899 332 0.775 18 0.599 64 0.600 109 0.794 154 0.991 199 0.935 244 0.995 288 0.995 333 0.775 19 0.693 64 0.600 109 0.794 154 0.991 199 0.935 244 0.996 289 0.891 334 0.773 20 0.680 65 0.601 110 0.801 155 0.991 200 0.934 246 0.998 291 0.883 335 0.775 21 0.687 66 0.602 111 0.0801 155 0.991 201 0.934 246 0.998 291 0.883 336 0.770 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.763 23 0.681 68 0.605 113 0.822 158 0.995 201 0.934 247 0.999 292 0.880 337 0.763 23 0.681 68 0.605 113 0.822 158 0.995 201 0.934 247 0.999 292 0.880 337 0.763 23 0.681 68 0.605 113 0.822 158 0.995 201 0.934 247 0.999 292 0.880 337 0.763 24 0.665 77 0.608 115 0.837 180 0.988 205 0.935 251 1.000 296 0.885 331 0.763 33 0.666 77 0.608 115 0.837 180 0.986 207 0.935 251 1.000 296 0.885 331 0.763 33 0.666 77 0.608 115 0.837 180 0.986 207 0.935 251 1.000 296 0.885 340 0.763 34 0.765 34 0.665 77 0.665 113 0.822 158 0.995 201 0.934 247 0.999 299 0.885 340 0.765 34 0.765 34 0.665 77 0.665 113 0.821 166 0.996 210 0.935 251 0.990 299 0.885 340 0.765 34 0.	5		50	0.605	95	0.703	140									
7 0.721 52 0.602 97 0.715 142 0.977 187 0.946 232 0.976 277 0.940 322 0.796 8 0.719 53 0.601 98 0.721 143 0.979 188 0.943 233 0.978 278 0.936 323 0.794 10 0.715 55 0.699 100 0.733 145 0.983 190 0.942 235 0.982 280 0.928 325 0.790 11 0.715 55 0.598 101 0.740 146 0.885 191 0.941 236 0.984 281 0.924 280 0.788 12 0.711 57 0.598 103 0.753 148 0.986 193 0.939 284 0.994 282 0.991 287 0.966 180 0.753 148 0.989 194 0.933 239 0.990 284 0.91		0.723	51	0.603	96	0.709	141					·	<u> </u>		 	
8 0.719 53 0.601 98 0.721 143 0.979 188 0.944 233 0.978 278 0.936 323 0.794 9 0.717 54 0.600 99 0.727 144 0.982 189 0.943 234 0.980 279 0.932 324 0.792 10 0.715 55 0.599 100 0.733 145 0.983 190 0.942 235 0.982 280 0.928 325 0.790 11 0.713 56 0.598 101 0.740 146 0.985 191 0.941 236 0.984 281 0.924 328 0.788 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.919 327 0.786 13 0.709 58 0.598 103 0.753 148 0.986 193 0.939 238 0.998 285 0.915 328 0.788 14 0.706 59 0.598 104 0.759 149 0.999 194 0.938 239 0.990 284 0.911 329 0.783 15 0.704 60 0.598 105 0.766 150 0.990 195 0.937 240 0.991 285 0.907 330 0.781 15 0.704 60 0.598 106 0.773 151 0.990 196 0.936 241 0.993 286 0.903 331 0.779 17 0.698 62 0.598 107 0.780 152 0.991 197 0.936 241 0.993 286 0.903 331 0.779 17 0.698 63 0.599 108 0.787 153 0.991 198 0.935 244 0.994 287 0.899 332 0.777 19 0.698 63 0.599 108 0.787 153 0.991 198 0.935 244 0.994 287 0.899 332 0.777 19 0.698 66 0.606 110 0.808 156 0.787 153 0.991 198 0.935 244 0.994 287 0.899 332 0.777 19 0.698 66 0.606 110 0.808 156 0.991 199 0.935 244 0.996 289 0.891 334 0.773 20 0.680 66 0.606 111 0.801 155 0.991 201 0.934 245 0.997 290 0.887 335 0.772 20 0.680 66 0.602 111 0.808 156 0.991 201 0.934 246 0.998 291 0.881 334 0.773 20 0.680 68 0.602 111 0.808 156 0.991 201 0.934 246 0.999 292 0.880 337 0.788 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.788 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.788 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 248 0.999 293 0.887 339 0.766 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 248 0.999 293 0.887 339 0.765 24 0.678 69 0.606 114 0.829 189 0.899 0.990 203 0.934 248 0.999 293 0.886 340 0.763 28 0.675 70 0.608 115 0.837 160 0.998 205 0.935 250 1.000 295 0.889 340 0.763 250 0.650 77 0.660 77 0.650 116 0.844 181 0.987 160 0.998 205 0.935 250 1.000 295 0.885 341 0.761 27 0.669 72 0.662 117 0.850 162 0.996 0.990 293 0.895 339 0.766 330 0.659 75 0.669 120 0.871 160 0.996 209 0.993 250 0.993 304 0.844 345 0.753	7	0.721	52	0.602	97	0.715	142									
9 0.717 54 0.600 99 0.727 144 0.982 189 0.943 234 0.980 279 0.932 324 0.792 11 0.713 55 0.599 100 0.733 145 0.983 190 0.942 235 0.982 280 0.928 325 0.790 11 0.713 56 0.598 101 0.740 146 0.985 191 0.941 236 0.984 281 0.924 326 0.786 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.919 327 0.786 13 0.709 58 0.598 103 0.753 148 0.988 193 0.999 238 0.988 283 0.915 328 0.784 14 0.706 59 0.598 104 0.759 149 0.999 194 0.938 239 0.992 240 0.911 329 0.781 15 0.704 60 0.598 106 0.766 150 0.990 195 0.937 240 0.991 285 0.907 330 0.781 16 0.701 61 0.598 106 0.773 151 0.990 196 0.936 241 0.993 286 0.993 331 0.775 17 0.698 62 0.598 107 0.780 152 0.991 197 0.936 242 0.994 227 0.899 332 0.777 18 0.696 63 0.599 108 0.787 153 0.991 198 0.935 243 0.995 288 0.895 333 0.775 19 0.693 64 0.600 109 0.787 153 0.991 198 0.935 243 0.995 288 0.895 333 0.775 20 0.680 65 0.601 110 0.801 155 0.991 200 0.934 245 0.996 289 0.881 334 0.773 21 0.687 66 0.602 111 0.801 155 0.991 200 0.934 245 0.996 289 0.881 334 0.773 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 336 0.770 23 0.681 68 0.605 113 0.822 158 0.990 202 0.934 247 0.999 292 0.880 337 0.788 24 0.678 69 0.606 114 0.829 159 0.989 204 0.934 248 0.996 289 0.881 336 0.770 25 0.662 77 0.668 16 0.841 110 0.841 161 0.987 205 0.935 255 1.000 295 0.865 341 0.763 26 0.672 71 0.810 116 0.844 161 0.987 206 0.935 255 1.000 296 0.865 341 0.763 27 0.669 75 0.619 120 0.871 165 0.998 201 0.937 254 0.999 299 0.885 340 0.763 28 0.662 77 0.662 121 0.878 166 0.985 210 0.937 255 0.998 300 0.855 344 0.753 31 0.655 76 0.622 121 0.878 166 0.997 211 0.937 255 0.998 300 0.852 345 0.755 31 0.662 77 0.688 123 0.890 168 0.978 213 0.995 255 0.990 300 0.852 345 0.755 31 0.662 77 0.685 123 0.890 168 0.978 213 0.995 255 0.990 300 0.852 345 0.755 31 0.662 77 0.686 123 0.891 168 0.995 121 0.993 255 0.998 300 0.855 345 0.755 31 0.662 77 0.686 123 0.890 171 0.975 215 0.994 260 0.993 304 0.803 348 0.754 33 0.649 78 0.662 123 0.891 168 0.997 171 0.975 215 0.945 265 0.998 300 0.852 345 0.755 3	8		53	0.601	98	0.721	143	0.979	188			***************************************				
10	9		54	0.600	99	0.727	144	0.982	189			····				
11 0.713 56 0.598 101 0.740 146 0.985 191 0.941 236 0.984 281 0.924 326 0.788 12 0.711 57 0.598 102 0.746 147 0.987 192 0.940 237 0.986 282 0.919 327 0.786 14 0.706 59 0.598 103 0.753 148 0.988 194 0.938 239 0.990 284 0.911 329 0.783 15 0.704 60 0.598 105 0.766 150 0.990 195 0.937 240 0.991 286 0.903 331 0.775 16 0.701 61 0.598 106 0.760 152 0.991 197 0.936 241 0.993 286 0.903 331 0.775 17 0.693 64 0.600 109 0.794 154 0.991 199<	10		55	0.599	100	0.733	145	0.983	}	0.942			·		-	
12	11	0.713	56	0.598	101	0.740	146	0.985	191	0.941					-	·
13 0.709 58 0.598 103 0.753 148 0.988 193 0.939 238 0.988 283 0.915 328 0.784 14 0.706 59 0.598 104 0.759 149 0.989 194 0.930 239 0.990 284 0.911 329 0.783 15 0.704 60 0.598 105 0.766 150 0.990 196 0.937 240 0.991 285 0.907 330 0.781 16 0.701 61 0.598 106 0.773 151 0.990 196 0.935 241 0.993 286 0.903 332 0.777 18 0.698 62 0.598 108 0.787 153 0.991 197 0.938 242 0.994 287 0.899 332 0.777 19 0.689 64 0.600 109 0.794 154 0.991 199<	12	0.711	57	0.598	102	0.746	147	0.987	····	0.940						
14 0.706 59 0.598 104 0.759 149 0.999 194 0.990 284 0.911 329 0.783 15 0.704 60 0.598 105 0.766 150 0.990 195 0.937 240 0.991 285 0.907 330 0.781 16 0.701 61 0.598 106 0.773 151 0.990 196 0.936 242 0.994 227 0.899 332 0.777 17 0.698 62 0.599 108 0.780 153 0.991 199 0.936 242 0.994 227 0.899 332 0.777 18 0.693 64 0.600 109 0.794 154 0.991 199 0.935 244 0.996 289 0.881 335 0.772 20 0.680 65 0.601 110 0.801 155 0.991 201 0.934 246<	13	0.709	58	0.598	103	0.753	148		193		1		·	····	·	
15 0.704 60 0.598 105 0.766 150 0.990 195 0.937 240 0.991 285 0.903 330 0.781 16 0.701 61 0.598 106 0.773 151 0.990 196 0.936 241 0.994 287 0.899 332 0.777 18 0.696 62 0.598 107 0.787 153 0.991 198 0.936 242 0.994 287 0.889 333 0.775 19 0.693 64 0.600 109 0.794 154 0.991 199 0.935 244 0.996 289 0.881 334 0.773 20 0.690 65 0.6001 110 0.801 155 0.991 200 0.934 244 0.996 289 0.887 335 0.772 21 0.684 67 0.603 112 0.815 157 0.990 202		0.706	59	0.598	104	0.759	149									
16 0.701 61 0.598 106 0.773 151 0.990 196 0.936 241 0.993 286 0.903 331 0.779 17 0.698 62 0.598 107 0.780 152 0.991 198 0.936 242 0.994 287 0.899 332 0.777 18 0.693 64 0.600 109 0.794 153 0.991 199 0.935 244 0.996 289 0.891 334 0.773 20 0.690 65 0.601 110 0.801 155 0.991 200 0.934 245 0.997 290 0.887 335 0.772 21 0.686 66 0.602 111 0.808 156 0.991 201 0.934 245 0.999 292 0.880 336 0.772 21 0.686 68 0.606 113 0.822 156 0.990 203<	15	0.704	60	0.598	105	0.766	150		195							
17 0.698 62 0.598 107 0.780 152 0.991 197 0.936 242 0.994 287 0.899 332 0.777 18 0.696 63 0.599 108 0.787 153 0.991 199 0.935 244 0.996 289 0.891 333 0.775 20 0.690 65 0.601 110 0.801 155 0.991 199 0.935 244 0.996 289 0.881 334 0.772 21 0.687 66 0.602 111 0.808 156 0.991 201 0.934 246 0.998 291 0.883 336 0.770 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.768 23 0.612 1.061 1.682 0.895 159 0.899 204 0	16	0.701	61	0.598	106	0.773	151		196		·				-[
18 0.696 63 0.599 108 0.787 153 0.991 198 0.935 243 0.995 288 0.895 333 0.775 19 0.693 64 0.600 109 0.794 154 0.991 199 0.935 244 0.996 289 0.891 334 0.773 20 0.680 65 0.601 110 0.801 155 0.991 200 0.934 245 0.997 290 0.887 335 0.770 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.768 23 0.681 68 0.605 113 0.822 158 0.990 203 0.934 248 0.999 293 0.876 336 0.766 24 0.672 70 0.608 115 0.837 160 0.988 205<	17	0.698	62	0.598	107	0.780	152					~				
19 0.693 64 0.600 109 0.794 154 0.991 199 0.935 244 0.996 289 0.891 334 0.773 20 0.690 65 0.601 110 0.801 155 0.991 200 0.934 245 0.997 290 0.887 335 0.772 21 0.684 67 0.602 111 0.808 156 0.991 201 0.934 246 0.998 291 0.883 336 0.770 22 0.684 67 0.602 113 0.822 158 0.990 202 0.934 247 0.999 292 0.880 337 0.768 24 0.678 69 0.606 114 0.829 159 0.988 205 0.934 248 0.999 293 0.862 338 0.766 25 0.675 70 0.608 115 0.837 160 0.988 205<	18	0.696	63	0.599	108	0.787	153	0.991		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	243					
20 0.680 65 0.601 110 0.801 155 0.991 200 0.934 245 0.997 290 0.887 335 0.772 21 0.684 66 0.602 111 0.808 156 0.991 201 0.934 246 0.998 291 0.883 336 0.770 22 0.684 67 0.603 112 0.815 157 0.990 203 0.934 248 0.999 293 0.876 338 0.768 24 0.678 69 0.606 114 0.829 159 0.989 204 0.934 248 0.999 293 0.876 338 0.766 25 0.675 70 0.608 115 0.837 160 0.988 205 0.935 250 1.000 295 0.869 340 0.763 26 0.672 71 0.610 116 0.884 161 0.985 251<	19	0.693	64	0.600	109	0.794	154	0.991	199						-1	
21 0.687 66 0.602 111 0.808 156 0.991 201 0.934 246 0.998 291 0.883 336 0.770 22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.768 23 0.681 68 0.605 113 0.822 158 0.990 203 0.934 248 0.999 293 0.876 338 0.766 24 0.678 69 0.606 114 0.829 159 0.988 205 0.935 250 1.000 294 0.872 339 0.765 25 0.675 70 0.608 115 0.837 160 0.988 205 0.935 251 1.000 296 0.869 340 0.763 26 0.652 71 0.610 116 0.844 161 0.987 206<	20	0.690	65	0.601	110	0.801	155	0.991	200	0.934	245		·[-	
22 0.684 67 0.603 112 0.815 157 0.990 202 0.934 247 0.999 292 0.880 337 0.768 23 0.681 68 0.605 113 0.822 158 0.990 203 0.934 248 0.999 293 0.876 338 0.766 24 0.678 69 0.606 114 0.829 159 0.989 204 0.934 249 1.000 294 0.872 339 0.765 25 0.675 70 0.608 115 0.837 160 0.986 205 0.935 251 1.000 296 0.865 341 0.761 27 0.669 72 0.612 117 0.850 162 0.986 207 0.935 252 1.000 296 0.865 341 0.761 28 0.662 74 0.617 119 0.864 164 0.984 209<	21	0.687	66	0.602		0.808	156	0.991	201	0.934	246		-j -	···		
23 0.681 68 0.605 113 0.822 158 0.990 203 0.934 248 0.999 293 0.876 338 0.766 24 0.678 69 0.606 114 0.829 159 0.989 204 0.934 249 1.000 294 0.872 339 0.765 25 0.675 70 0.608 115 0.837 160 0.988 205 0.935 250 1.000 296 0.869 340 0.763 26 0.672 71 0.610 116 0.844 161 0.987 206 0.935 251 1.000 296 0.865 341 0.761 27 0.669 72 0.612 117 0.850 163 0.986 207 0.935 252 1.000 297 0.862 342 0.760 28 0.662 74 0.617 119 0.864 164 0.984 209<		0.684	67	0.603	112	0.815	157	0.990	202	0.934	-					
24 0.678 69 0.606 114 0.829 159 0.989 204 0.934 249 1.000 294 0.872 339 0.765 25 0.675 70 0.608 115 0.837 160 0.988 205 0.935 250 1.000 295 0.869 340 0.763 26 0.672 71 0.610 116 0.844 161 0.987 206 0.935 251 1.000 296 0.865 341 0.761 27 0.669 72 0.612 117 0.850 162 0.986 207 0.935 252 1.000 297 0.862 342 0.760 28 0.665 73 0.614 118 0.857 163 0.982 200 0.937 254 0.999 299 0.855 343 0.755 30 0.652 75 0.619 120 0.871 166 0.982 210<	23	0.681	68	0.605	113	0.822	158	0.990	203		···		~~~~	·	~ 	·
25 0.675 70 0.608 115 0.837 160 0.988 205 0.935 250 1.000 295 0.869 340 0.763 26 0.672 71 0.610 116 0.844 161 0.987 206 0.935 251 1.000 296 0.865 341 0.761 27 0.669 72 0.612 117 0.850 162 0.986 207 0.935 252 1.000 297 0.862 342 0.760 28 0.665 73 0.614 118 0.857 163 0.985 208 0.936 253 0.999 298 0.858 343 0.758 29 0.662 74 0.617 119 0.864 164 0.984 209 0.937 255 0.999 299 0.855 344 0.757 30 0.652 75 0.619 120 0.871 165 0.982 210<		0.678	69	0.606	114	0.829	159	0.989	204						·•	[,
26 0.672 71 0.610 116 0.844 161 0.987 206 0.935 251 1.000 296 0.865 341 0.761 27 0.669 72 0.612 117 0.850 162 0.986 207 0.935 252 1.000 297 0.862 342 0.760 28 0.665 73 0.614 118 0.857 163 0.985 208 0.936 253 0.999 298 0.858 343 0.758 29 0.662 74 0.617 119 0.864 164 0.984 209 0.937 254 0.999 299 0.855 344 0.757 30 0.655 76 0.622 121 0.878 166 0.981 211 0.938 256 0.997 301 0.849 346 0.754 32 0.652 77 0.625 122 0.884 167 0.980 212<	25	0.675	70	0.608	115	0.837	160	0.988	205	0.935	250	£		····	~{~~~~	
27 0.669 72 0.612 117 0.850 162 0.986 207 0.935 252 1.000 297 0.862 342 0.760 28 0.665 73 0.614 118 0.857 163 0.985 208 0.936 253 0.999 298 0.858 343 0.758 29 0.662 74 0.617 119 0.864 164 0.984 209 0.937 254 0.999 299 0.855 344 0.757 30 0.659 75 0.619 120 0.871 165 0.982 210 0.937 255 0.998 300 0.852 345 0.755 31 0.655 76 0.622 121 0.878 166 0.981 211 0.938 256 0.997 301 0.849 346 0.754 32 0.652 77 0.625 122 0.884 167 0.980 212<		0.672			116	0.844	161	0.987	206	0.935	251	1	296		~~	
28 0.665 73 0.614 118 0.857 163 0.985 208 0.936 253 0.999 298 0.858 343 0.758 29 0.662 74 0.617 119 0.864 164 0.984 209 0.937 254 0.999 299 0.855 344 0.757 30 0.659 75 0.619 120 0.871 165 0.982 210 0.937 255 0.998 300 0.852 345 0.755 31 0.655 76 0.622 121 0.878 166 0.981 211 0.938 256 0.997 301 0.849 346 0.754 32 0.652 77 0.625 122 0.884 167 0.980 212 0.939 257 0.996 302 0.846 347 0.752 33 0.649 78 0.631 124 0.897 169 0.976 214<				0.612	117	0.850	162	0.986	207	0.935	252	1.000				
29 0.662 74 0.617 119 0.864 164 0.984 209 0.937 254 0.999 299 0.855 344 0.757 30 0.659 75 0.619 120 0.871 165 0.982 210 0.937 255 0.998 300 0.852 345 0.755 31 0.655 76 0.622 121 0.878 166 0.981 211 0.938 256 0.997 301 0.849 346 0.754 32 0.652 77 0.625 122 0.884 167 0.980 212 0.939 257 0.996 302 0.846 347 0.752 33 0.649 78 0.628 123 0.890 168 0.978 213 0.941 258 0.995 303 0.843 348 0.751 34 0.646 79 0.631 124 0.897 169 0.976 214<	ļ		73	0.614	118	0.857	163	0.985	208	0.936	253	0.999	298			
30 0.659 75 0.619 120 0.871 165 0.982 210 0.937 255 0.998 300 0.852 345 0.755 31 0.655 76 0.622 121 0.878 166 0.981 211 0.938 256 0.997 301 0.849 346 0.754 32 0.652 77 0.625 122 0.884 167 0.980 212 0.939 257 0.996 302 0.846 347 0.752 33 0.649 78 0.628 123 0.890 168 0.978 213 0.941 258 0.995 303 0.843 348 0.751 34 0.646 79 0.631 124 0.897 169 0.976 214 0.942 259 0.993 304 0.840 349 0.749 35 0.642 80 0.634 125 0.993 170 0.975 215<	29	0.662	74	0.617	119	0.864	164	0.984	209	0.937	254	0.999	299			
31 0.655 76 0.622 121 0.878 166 0.981 211 0.938 256 0.997 301 0.849 346 0.754 32 0.652 77 0.625 122 0.884 167 0.980 212 0.939 257 0.996 302 0.846 347 0.752 33 0.649 78 0.628 123 0.890 168 0.978 213 0.941 258 0.995 303 0.843 348 0.751 34 0.646 79 0.631 124 0.897 169 0.976 214 0.942 259 0.993 304 0.840 349 0.749 35 0.642 80 0.634 125 0.903 170 0.975 215 0.943 260 0.992 305 0.837 350 0.748 36 0.639 81 0.638 126 0.909 171 0.973 216<					120	0.871	165	0.982	210	0.937	255	·	300			
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THE PARTY OF THE P	44	0.617	89	0.671	134	0.950	179	0.959	224	0.959	269	0.969	314	0.814	359	0.735



Internet: www.dielectric.com



Quotation

Customer
WSWP
600 CAPITOL STREET
CHARLESTON WV 25301
USA

Ship-To-Party
WSWP
CALVIN HANNAH 304-254-7867
MANN MOUNTAIN
LAYLAND WV 25864
USA

Header Information

Terms of payment:

Billing Plan

incoterms:

PPD FOB DESTINATION

Standard Payment Terms:

45% due with order 45% due prior to shipment 10% due net 30 days,

or Other Terms to be Negotiated.

Shipment: 135-165 days ARO, depends upon backlog at time of order.

Item	Material Number / Cat. Num / Description Quantity Unit Price	Amount
10	11000000077/ ANT THV-6A10-R 3C140 WSWP 1 EA CH10	
	Per Technical Spec C-02852-2	1
	Antenna Description:	
1	THV-6A10-R 3C140	
	-Channel 10 -top mounted on customer supplied tower	
	-Directional azimuth pattern	
	-Electrical beam tilt is .75 degrees.	
	-Ave Power rating 30 kW	
	-Single 3-1/8# 50 ohm EIA input	
	Includes:	,
	-Hot dip galvanized steel pole	
	-Factory assembly and test of antenna components	
	-Full cylindrical Radome (Standard Radome Color is Orange)	
	-3 Conductor wire to top Beacon (Beacon not include)	

item 10 on next page



Internet: www.dielectric.com



Quotation

Quote Number 2006379

Quote Date 09/20/2007

Customer No. 112546

ltem	Material Number / Cat. Num / Description	Quantity Unit P	rice Amount
	-4\ ft lightning protection		
20	11000000077/ ELBOW COMPLEX 3-50 WSWP CH10	1 EA	
30	11000000077/ SUPPORT POLE/TRANSITION MAST WSWP CH10	1 EA	
40	11000000077/ FEED THRU COMPONENTS WSWP CH10	1 EA	
50	R58725 / DC 375-003 / T/L 3-50 234.00 MF EX CONN	22 EA	
60	R0006085504 / DC 370-036 / HANGER VERT 3 1/8 SPG SIN GRD	36 EA	
70	R66788 / 300TLS 115 / DEHYDRATOR 300TLS 115 VAC	1 EA	
80	RTT350/ TRANS TEST 3-50	1 EA	
90	R0011016502 / DC 370-031 / HANGER HOR 3 1/8 3 PT SUS SIN	4 EA	
100	R0012446501 / DC 375-005 / GAS STOP 3-1/8 EIA	1 EA	
	,		

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Internet: www.dielectric.com



Quotation

Quote Number 2006379

Quote Date 09/20/2007

Customer No. 112546

Item	Material Number / Cat. Num / Description	Qua	ntity	Unit Pri	ce	o de personação	Amount
110	R74292 / DL 375-022 / ELBOW 3-50 ASSY DIGIT 6X9		EA				
120	R0004575501 / DC 370-012 / KIT ASSY HARDWARE 3 1/8 T/L	25	EA				
130	R0015954501 / DC 370-024 / CAP ASSY SEALING 3 1/8 C	1	EA			se cie cientino de la comunicación de la comunicaci	- VAL - MANAGEMENT
140	R0013705508 / DC 375-011 / CONN ANCHOR 3-50	2	EA ·				
150	R0048672501 / DC 570-043 / KIT ASSY GASSING-SYSTEM	1	EA				
160	R0004264502 / DC 370-038 / LATERAL BRACE 3 1/8 T/L	1	EA	·			
170	R0003482502 / DC 370-028 / ANCHOR HORIZ 3 1/8 SINGLE	1	EA				
180	R0006082502 / DC 370-034 / HANGER VERT 3 1/8 FIX SINGLE	1	EA				
190	R0044901001 / DC 570-045 / DOW CORN.#4 SILICONE LUBRI	1	EA				
L		····		_			

Item 200 on next page



Internet: www.dielectric.com



Quotation

Quote Number 2006379

Quote Date 09/20/2007

Customer No. 112546

ltem.	Material Number / Cat: Num / Description Quantity Unit Price	Amount
200	RTLSCR3 / 562173-99 / T/L 3-50 VAR LENGTH 2 EA	
210	R36610/ IB 162 MANUAL T/L INSTALL 2 EA INSTRUCTIONS	
220	RINSRTV/ INSTALL SERVICES RAYMOND TV 1. EA 1.0 Mobilize to Site 2.0 Offload and inventory material and equipment 3.0 Set up site and rig tower 4.0 Install and jump gin pole 5.0 Remove top mounted strobe and disconnect cable for reuse 6.0 Remove existing TW-15A9-R Antenna and store on site 7.0 Remove existing 61 //8# line and store on site 8.0 Punch existing clip angles to accept 3 1//8# hangers 9.0 Install new 3 1//8# line (approximately 400ft) 10.0 Install new top mounted THV-7A10-R 4C150 D10, adapter and support pole 11.0 Assist with testing and tuning of antenna system 12.0 Reinstall strobe light 13.0 Lower and remove gin pole 14.0 Down rig and clean site 15.0 De-mobilize from site NOTES: 1.0 All material to be neatly stacked on site for customer removal 2.0 Structural analysis performed by others 3.0 Proposal assumes site is easily accessible with two wheel drive vehicles with no power lines, utilities or standing water interfering with installation or product delivery 4.0 Price does not include any additional steel that may be required for t/l run 5.0 Price includes temporary strobe on tower top when existing top beacon is disassembled 6.0 Price includes two weather days. Additional days will be billed at \$3,650 per day 7.0 All work to be completed during daylight hours 8.0 Assumes no RF protective clothing is required 9.0 RF safe environment shall be provided 10.0 Assumes service crews have full access to Customer#s site and tower	
230	RFREIGHT/ FREIGHT, SHIPPING, AND HANDLING 1 EA Note: The quoted price is subject to change to reflect	,
	increases in fuel costs, shipper surcharges, etc.	,
	This is for freight only and excludes any off loading of equipment	

Item 230 on next page



Internet: www.dielectric.com



Quotation

Quote Number 2006379

Quote Date 09/20/2007

Customer No. 112546

Item	Material Number / Cat. Num / Description Quantity Unit Price	
	unless specified. If off loading is required please notify the customer	Amount
	service rep.	
240	11000000077/ PERFORMANCE BOND 1 EA	
250	11000001830/ CUSTOMER CHECKOUT 1 EA	
l	Additional days at \$1,600 per day plus expenses(15% on expenses only)	
	Please call (3) days in advance to request services.	
	ricese can to days in advance to request services.	
ACCED	TANCE:	
equipme	ntion below, or by sending a Purchase Order referencing this proposal, the undersigned accepts this propos nt and services on this schedule subject to the Terms and Conditions of Sale for Broadcast, Lighting, Moni	al to furnish
Intonners	and dervices they O/t Dielectric Terms") attached hereto and/or incorporated by reference boroin and any	
bioceea	with the procedent and raphication of this equipment, Your acceptance of this proposal is conditioned	
01 216 5	electric terms and your agreement to be bound by and comply with the Dielectric Terms Dielectric's fall	
PLOAISION	s contained in any nurchase order or other document from you shall not be construed as a walver by his	lmm4ut#_at
Order or	Terms or an acceptance of any such provisions. Any conflicting or additional terms or conditions set for other document from you are not binding upon Dielectric, and Dielectric hereby expressly objects thereto.	th in a Purchase
	b position increase expressity objects thereto.	
Cianata		
Signatu	re Date	
Reques	ted Ship Date:	
This requ	lested ship date is subject to review by Dielectric. If Dielectric can not meet the requested ship date, you	will be contacted
LO WOIK	out a mutually acceptable shipment date. Dielectric requires that the customer take ownership of the proc days after the agreed-upon ship date.	luct no later than 14
	and any and any or assist core.	

USERS LIST

Dielectric

THV Antenna

USERS LIST

Current Projects THV

Call Letters	<u>Location</u>	<u>Type</u>	Ship Date
CANADA	Trois-Riveres, Quebec	THV-12A13-R S190 SM	Jun-03
WXYZ	Detroit, MI	THV-5A7-R C140 SM	Aug-03
WHTM	Harrisburg, PA	THV-6A10-R S190	Apr-04
WMAK	Knoxville, TN	THV-11A7-R C160	Jun-04
WTSP-DT	Tampa-St. Petersburg, FL	THV-11A10 C150	Nov-04
KNTV	San Jose, CA	THV-11A11/VP-R 04	
WJSU-DT	Anniston, AL	THV-6A9-R S190 SM	Dec-04
WVER-DT	Rutland, VT		Jan-05
KGUN		THV-6A9/VP-R C160 SM	Apr-05
	Tucson, AZ	THV-5A9-R C140	Jul-05
WFXL-DT	Albany, GA	THV-12A12-R C170 SM	Dec-05
KIII-DT	Corpus Christi, TX	THV-11A8 C135 SM	Mar-06
KGO,-DT	San Francisco, CA	THV-5A7-R C170	Dec-07
WPLG-DT	Miami, FL	THV-8A10/VP P210	Dec-07
WACS-DT	Dawson, GA	THV-5A8-R C170	Mar-08
KFWD-DT	Ft. Worth, TX	THV-6A9-R C180	May-08
WPTV-DT	West Palm Beach, FL	THV-10A12/VP O4	May-08
KWTX-DT	Waco, TX	THV-12A10-CP-R-04	Aug-08
KXII-DT	Sherman, TX	THV-12A12/CP-R 04	Aug-08
KVIE-DT	Sacramento, CA	THV-5A9/VP-R 04	Aug-08
, WCPO-DT	Cincinnati, OH	THV-9A10/CP-R3C120	Oct-08
YJRH-DT	Tulsa, OK	THV-9A8/CP-R O4	Sep-08
WTOL-DT	Toledo, OH	THV-6A11-R C170	Sep-08
KEZI-DT	Eugene, OR	THV-10A9/VP-R-C170	Sep-08
WWDP-DT	Norwell, MA	THV-5A10-R O4	Oct-08
WVTM-DT WMBB-DT	Harrisburg, PA	THV-9A13/VP-R O4	Oct-08
WJHL-DT	Panama City, FL.	THV-10A13 C170	Nov-08
WJZ-DT	Johnson City, TN	THV-9A11-R 4C130	Nov-08
;	Baltimore, MD	THV-11A13/VP-R C150SP	Apr-09
KBRR-DT	Thief River Falls, MN	THV-6A10-R 04 SM	Dec-09
WPEC-DT WSVN-DT	West Palm Beach, FL	THV-6A13/VP-R BP240	Feb-09
i	Miami Gardens, FL	THV-10A7/VP P210	In Fab
WENT DT	Chattanooga, TN	THV-5A9/VP-R C140	In Fab
WENH-DT	Deerfield, NH	THV-10A11/VP-R 4C130	in Fab
WSPA-DT	Spartanburg, SC	THV-10A7/VP-R O4	In Fab
•			

Recent Major Projects

<u>Project</u>	<u>Location</u>	Type	Date	Price
Sutro Tower	San Francisco CA	DTV Conversion - Multiple	2007-2008	\$5.9 million
		Antennas, RF systems and Transmission line		
SCETV	Georgia Public Statewide	DTV Conversion - Multiple	2007-2008	\$5.2 million
		Antennas, RF systems and Transmission line		
Lake Cedar Gro	ار Denver CO	DTV Conversion - Multiple	2007-2008	\$3.9 million
1		Antennas, RF systems and	2007-2000	HOWITH GLOW
		Transmission line		

MINIMUM EXPECTATIONS

Dielectric Communications

MINIMUM EXPECTATIONS FOR FIELD TEST REPORTS DONE ON DIELECTRIC BROADCAST ANTENNAS, TRANSMISSION LINE AND RF SYSTEMS

FORMAT

- Preferred Software: PDF
- Please have the field service engineer's name on the report
- Please have pages or plots/figures numbered on the report

COVER PAGE

- Date & Location of Service
- Station Call Letters & MSO #
- Channel Number: Digital or NTSC
- Antenna Model: New or Existing
- Transmission Line: New or Existing
- T/L or wg model new or existing and overall length (within approx. 20 feet) Specify digitLine, EHT coated, Ultimate or Standard line, etc.
- Also indicate individual line lengths for the transmission line, i.e., 11.5, 12, 19.5, 20 feet or digiTLine
- RF System if measured, please note type of system, i.e., 1 Tube, 2 Tube, etc.
- Site Conditions, i.e. other stations in the area (if available)

ABSTRACT

- Description of report
- Equipment used
- Particular Information: antenna optimized with variable, elbow complex measured separately; line optimized; size of line; concerns and/or problems

Antenna and Transmission Line

This is a list of measurements to be taken for both antenna and transmission line for each channel of interest. The measurements listed below should be fully documented and taken after tuning. Before measurements are only necessary if a problem is noted and only appropriate measurements specific to the problem and correction need to be included. Please include these measurements, and any comments, on a separate appendix at the end of the report.

Please note measurement reference e.g. gas stop, patch panel, switches.

- 1) Polar plot of system impedance over 6 MHz centered on channel, 1601 points.
 - a) For NTSC locate markers at lower channel edge, upper channel edge, VIS, Color, AUR and for DTV lower channel edge, mid-channel and upper edge. Please have a brief description of each marker below its respective plot.
 - b) Scale 100mU, or most reasonable
- 2) VSWR plot of system impedance over 6 MHz centered on channel, 1601 points
 - a) Markers as in 1a
 - b) Vertical scale 20 m per division, or most reasonable.
- 3) Plot with system return loss over 6 MHz in dB centered on channel, 1601 points.
 - a) Markers as in 1a
 - b) Vertical scale 5 dB per division, or most reasonable.
- 4) TDR in VSWR with 6 MHz bandwidth centered on Channel with 1601 points.
 - a) Vertical scale 10mU per division, or most reasonable.
 - b) Markers where appropriate (Please describe i.e. Antenna, elbow, etc...)
- 5) Polar plot of system impedance over 12 MHz centered on channel, 1601 points
 - a) Markers as in 1a
 - b) Scale 100mU, or most reasonable.
- 6) VSWR plot of system impedance over 12 MHz centered on channel, 1601 points
 - a) Markers as in 1a
 - b) Vertical scale 20 m per division, or most reasonable.
- 7) Plot with system return loss over 12 MHz in dB centered on channel, 1601 points.
 - a) Markers as in 1a
 - b) Vertical scale 5 dB per division, or most reasonable.
- 8) TDR in VSWR with 12 MHz bandwidth centered on Channel with 1601 points.

- a) Vertical scale 10mU per division.
- b) Markers where appropriate (Please describe i.e. Antenna, elbow, etc...)
- TDR in VSWR with 100 MHz bandwidth centered at channel center with 1601 points.
 - a) Vertical scale 10 mU per division.
 - b) Markers where appropriate (Please describe i.e. Antenna, elbow, etc...)
- 10) Frequency Domain VSWR plot over 100 MHz centered on channel of interest. Antenna and far end elbow complexes must be **gated out** for this measurement. This will show flange reflections on fixed length lines and no flange reflections on digitLine.
 - a) Markers as described in 1a
- 11) Wide band TDR in VSWR using the parameters described below with 1601 points.
 - a) Vertical scale 2 m per division
 - b) Frequency span line type dependent (see below)
 - c) Data to be plotted in 1 microsecond intervals per plot.
 - d) Marker 1 at far end and displaying distance in meters.
 - e) Other markers where appropriate (Please describe i.e. Antenna, elbow, etc...)

Frequency bandwidth choices for TDR will vary with line size and between coax and waveguide. Please use the following:

For 6-50 Ohm and smaller lines sizes: Please use 470 to 806 MHz.

For 6-75: Please use 470 to 806 MHz.

For 7-75: Please use 450 to 800 MHz.

For 8-75: Please use 400 to 700 MHz.

For 9-75: Please use 300 to 613 MHz.

For WR1800: Please use 350 to 700 MHz.

For WR1500: Please use 400 to 750 MHz.

For WR1150: Please use 550 to 900 MHz.

For DTW1750: Please use 400 to 700 MHz.

For DTW1500: Please use 450 to 750 MHz.

For DTW1350: Please use 500 to 800 MHz.

- 12) Explode any area of No. 11 with interesting features.
 - a) Expand horizontal scale to show more detail.

NOTES:

- Anomalies noted in any above plots and specific locations associated with any anomalies in the TDR plots should be explored, explained and fixed prior to final test.
- Set velocity factor to 1.0 for all TDR Measurements, otherwise specify value.
- If at any time the scale is not sufficient to show the maximum value use appropriate scale and note on exhibit.

COMMENTS

The purpose and requirements of the wideband TDR is to provide an accurate picture of the performance of each insulator, connector and flange plus any anomalies in the transmission line. The large discontinuities generally seen on this plot such as the antenna are not of interest. We are interested in discontinuities from elbows, gas barriers and other small anomalies.

We want a trace with the vertical scale with a VSWR=1.002 /div to highlight the insulators in the transmission line.

The horizontal scale should begin at ZERO and end at the antenna input, thereby expanding the data between these two points.

The TDR window function should generally be set to normal. The minimum setting causes the large peaks to be broader and to bleed into the smaller peaks, thereby obscuring the data that we want. The maximum window reduces the peak values and obscures some of the data.

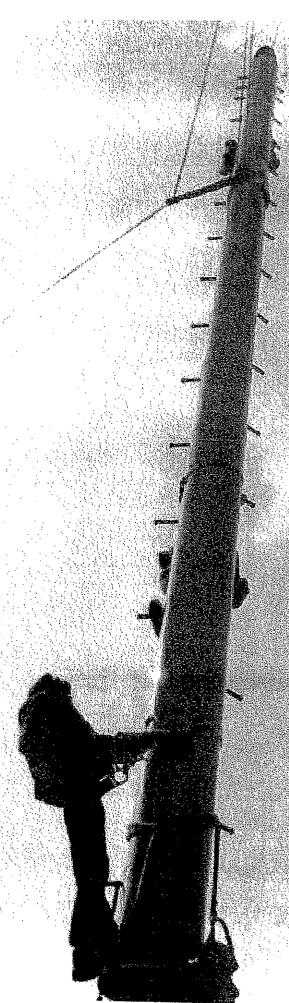
RF System or Filter System

- VSWR of items tested or modified. Include markers at equal ripple bandwidth of filters. Use 30 MHz bandwidth and 5 dB/div scale.
- Measure loss at .1dB/DIV at equal ripple BW and VIS and AUR for NTSC. For DTV include markers at equal ripple BW and +/- 2.69 MHz and center band. Use 30 MHz wide overall bandwidth.
- Measure Group Delay. Place marker 1 at low value of delay. Place two
 additional markers at channel edges and two markers at the peaks of delay. Use
 30 MHz wide sweep and 20 50 ns/div.
- Isolation of hybrids, phase shifters and similar devices (when they are the point of the trip). Use 30 MHz frequency sweep for single channels and greater for multiple channels.

CONCLUSION

- Brief summary of measurements
- List any changes made to the system
- List any concerns and/or comments
- Statement of authenticity and signature

DATA SHEETS



Dielectric

Editorie Editoria Brasilie dica di Sancia (1974)

THV Series High Band VHF Pylon Antenna

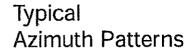
Single Frequency NTSC & DTV

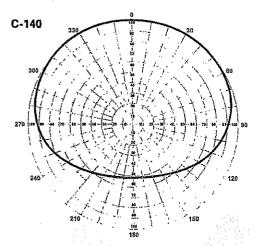
VHF Antenna for single frequency high band operations

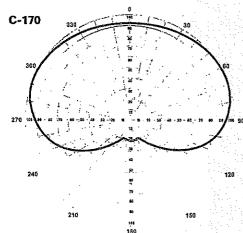
- Top or Side Mounting Options
- Low Windload/Economical Design
- Available in Directional Configurations with custom azimuth patterns available
- Elevation Gains from 6.0 (7.78dB) to 12.0 (10.79dB)
- Peak Gains to 22.8 (13.58dB)
- Full Lexan® Radome Standard
- High Input Power Handling
- Ideal for NTSC and DTV Applications
- · Custom azimuth patterns available

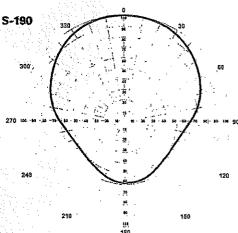
The THV antenna is designed for directional high-band VHF applications in both top and side-mounted configurations. The THV utilizes the simplicity and reliability of pylon technology. This antenna combines high power handling, pattern diversity (elevation and azimuth), and Dielectric's conservative design approach to produce a superior product for single frequency high band operations.

The THV azimuth pattern can be custom designed to fit a variety of applications, catering to facilities proposing maximization for DTV, those with protection requirements or those wishing to focus the energy towards the market of interest.



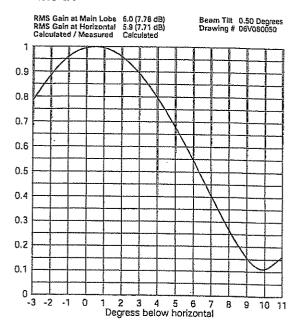




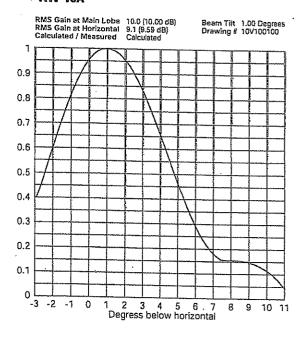


Standard Elevation Patterns

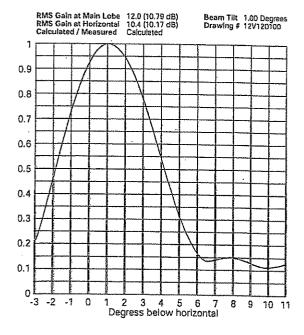
THV-6A



THV-10A



THV-12A



POWER OF ATTORNEY

Know All Men By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal office in Kansas City, Missouri (hereinafter referred to as the "Company") does hereby appoint

Stephanie D. Freeman

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds and undertakings

Surety Bond Number: Bid Bond Principal: Stainless, LLC Obligee: State of West Virginia

EXCEPTION: NO AUTHORITY is granted to make, execute, seal and deliver bonds or undertakings that guarantee the payment or collection of any promissory note, check, draft or letter of credit.

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The Company may revoke this appointment at any time.

The execution of such bonds and undertakings in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office in Kansas City, Missouri.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on March 3, 2003, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings, obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on March 3, 2003:

VOTED, That the signature of the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on March 3, 2003, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

In Testimony Whereof, the Company has authorized officers, this 16th day of	caused this instrument to b June, 2009	https://demails.com/
		Arch Insurance Company
Attested and Certified		
Muto Hul Martin J. Nilsen, Secretary	CORPORATE SEAL 1971	Award M. Litus Vice President
STATE OF NEW YORK SS		
COUNTY OF NEW YORK SS		
be the same persons whose names are Corporation organized and existing und appeared before me this day in person sealed with the corporate seal and delive their own free and voluntary acts for the	respectively as Vice Preside der the laws of the State of and severally acknowledge ered the said instrument as	16W1.(Q)
Notary Qual	Public, State of New York No. 02CA6109336 Ified in New York County ssion Expires May 3, 2008	Peter J. Calleo, Notary Public My commission expires 5-03-2008
on behalf of the person(s) as listed above	ve is a true and correct copy se and effect on the date of wer of Attorney as Vice Pres	reby certify that the attached Power of Attorney dated y and that the same has been in full force and effect this certificate; and I do further certify that the said sident, was on the date of execution of the attached nce Company.
IN TESTIMONY WHEREOF, I have her Company on this 16th day of 5	eunto subscribed my name lune, 2009	and affixed the corporate seal of the Arch Insurance
		Martin J. Nilsen, Secretary
This Power of Attorney limits the acts of	f those named therein to the	e bonds and undertakings specifically named thereiner and to the extent herein stated.

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:

Arch Surety 3 Parkway, Suite 1500 Philadelphia, PA 19102





State of West Virginia DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Code §21-1D-5

STATE OF WEST VIRGINIA,				
COUNTY OF Fayette, TO-WIT:				
I, Donaco Dory , after being first duly sworn, depose and state as follows:				
1. I am an employee of Doty Moore Tower Services LLC; and, (Company Name)				
2. I do hereby attest that Doty Moore Tower Services LLC (Company Name)				
maintains a valid written drug free workplace policy and that such policy is in compliance with West Virginia Code §21-1D-5.				
The above statements are sworn to under the penalty of perjury.				
Doty Moore Tower Services LLC (Company Name)				
By:				
Title: VICE PRESIDENT				
Date: 5/11/2009				
Taken, subscribed and sworn to before me this 11th day of 2009.				
BY COMMONS APPLEMBSYLVANIA 09 Notarial Seal (Seal) Kathryn R. Myers, Notary Public Upper Gwynedd Twp., Morrigomery County My Commission Expires Aug. 9, 2009 Member, Pennsylvania Association of Notaries (Notary Public)				

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

		~							
			<u>PD</u> CERTIFIC	ATE OF LIABILIT	Y INSU	RANCE			DATE (MM/DD/YYYY) 4/30/2009
PRO	DUCE	₹ ((410)480-4400 FAX:	(410) 465-0759	THIS CERT	TIFICATE IS ISS	UED AS A MATTE	RC	E INFORMATION
			RISK MANAGEMENT (I UNLY AND	D CONFERS N	O RIGHTS UPON	TL	IE CEDTIEICATE
58	50 1	Vat	erloo Road, Suite	240	ALTER TH	COVERAGE AF	FORDED BY THE	POL	CIES BELOW.
	lum	oia	MD 21	.045	INSURERS A	FFORDING COVE	RAGE	NAI	C#
	IRED				INSURER A; Zu	rich Americ	an Ins. Co.		
			ore & Hoenninger,	LTC	INSURER B: TW:	in City Fir	e Ins. Co.		
11	40 1	Vel	sh Road #250		MSURER C: American Guarantee & Liab				
					INSURER D: Tra	avelers Pro	p & Casualty		
			les PA 19	9454	INSURER E:				
COV TH	ERA	SES ICIE	S OF INSURANCE LISTED BELO	W HAVE BEEN ISSUED TO THE INSU	DED MANER ADD	VC COD THE BOX			
THI AG	E INS	URA ATE		ICIES DESCRIBED HEREIN IS SUR					
INSR	ADD'L	į	TYPE OF INSURANCE		POLICY EFFECTIVE	POLICY EXPIRATION DATE (MM/DD/YY)		LIMIT	\$
		1	NERAL LIABILITY		VALUE OF LITTLE		EACH OCCURRENCE	**************************************	s 1,000,000
		X	COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrent		s 300,000
A			CLAIMS MADE X OCCUR	GL0594442700	12/1/2008	12/1/2009	MED EXP (Any one perso		s 10,000
				Миниска и по			PERSONAL & ADV INJUR		s 1,000,000
							GENERAL AGGREGATE	`	\$ 2,000,000
		GE	AGGREGATE LIMIT APPLIES PER]	PRODUCTS - COMP/OP	AGG	
			POLICY X PRO- LOC						
		-	TOMOBILE LIABILITY ANY AUTO				COMBINED SINGLE LIMI (Ea accident)	Т	\$ 1,000,000
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		X	HIRED AUTOS NON-OWNED AUTOS				BODILY INJURY (Per accident)		\$
							PROPERTY DAMAGE (Per accident)		\$
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			ANY AUTO					ACC	\$
							AUTO ONLY-	AGG	
			ESS/UMBRELLA LIABILITY				EACH OCCURRENCE		\$ 25,000,000
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_							·····		\$
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Α	WORL		RETENTION \$ 0 COMPENSATION AND				NACO CATAL A T		\$
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			RIETOR/PARTNER/EXECUTIVE IEMBER EXCLUDED?	WICEDAAAD OO	10/7/0000	10/1/0000	E.L. EACH ACCIDENT		\$ 1,000,000
			ibe under ROVISIONS below	WC5944430-00	12/1/2008		E.L. DISEASE - EA EMPLO	Ŧ	
a			nstallation Floater	· · · · · · · · · · · · · · · · · · ·	3/18/2009	2/10/0010	E.L. DISEASE - POLICY L	MIT :	
			ncludig transit	-	J, 10/2003	3/10/2010	\$2,000,000 Limit		\$25,000 Ded
			ased/Rented Equip		3/18/2009	3/18/2010	\$500,000 Limit		\$5,000 Ded
DESC	RIPTIC	N OF	OPERATIONS/LOCATIONS/VEHICLE	S/EXCLUSIONS ADDED BY ENDORSEMENT	SPECIAL PROVISIO	MC			
Insi	ırane	ce \	/erification Michigan .	State University is named a Professional Liability sub-	additional in		tten contract o	n al	l policies
CER	TIFIC	ATE	HOLDER		CANCELLATIO	ON			
			T	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE					
			EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL						
			•		30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT				
					FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE				
					INSURER, ITS AGENTS OR REPRESENTATIVES.				
				AUTHORIZED REPI					
					David Saul	/KAC		1	- Jane

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

COMMENTS/REMARKS

Named Insureds:

Doty Moore Hoenninger, LLC Stainless, LLC Doty Moore Tower Services, LLC Spectrasite Broadcast Technical Services, Inc. DMH Management, LLC

Professional Liability, Policy #0859335, 05/01/2008 - 05/01/2009, Lexington Insurance Company \$1,000,000 per claim/\$1,000,000 aggregate; \$25,000 deductible per claim

OFREMARK

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