

Request for Waiver of Tolling Standard to Extend Construction Permit

West Virginia Educational Broadcasting Authority (“WVEBA”), licensee of low-power television translator station W17EF-D, Wheeling, West Virginia (“W17EF,” Facility ID No. 167354), respectfully submits the instant application to request a waiver of the tolling standard set forth at Section 73.3598(b) of the Rules of the Federal Communications Commission (“FCC” or “Commission”) to extend W17EF’s construction permit, LMS File No. 0000054635 (the “Channel 17 Displacement CP”). The Channel 17 Displacement CP is presently scheduled to expire on July 18, 2022. Based upon the special, rare, and exceptional circumstances delineated below, WVEBA respectfully requests a waiver of the FCC’s tolling standard to extend the Channel 17 Displacement CP until November 30, 2022.

I. Legal Authority

Pursuant to FCC regulations, a station that requires additional time to complete construction beyond its initial construction permit may seek a waiver of the tolling standard set forth in Section 73.3598(b) of the FCC’s Rules upon a showing of rare and exceptional circumstances.¹ The Commission may waive a rule where the particular facts make strict compliance inconsistent with the public interest, special circumstances warrant a deviation from the general rule, and such deviation will serve the public interest.² As explained below, such special, rare, and exceptional circumstances are present in the case of W17EF.

II. Background

W17EF is affiliated with the PBS Television Network and is licensed to WVEBA, a public benefit corporation established by the State of West Virginia (the “State”) to provide non-commercial educational radio and television broadcasting services to residents of West Virginia.³ W17EF operates as part of the WVEBA television network, which includes full-power television stations WSWP-TV, WVPB-TV, and WNPB-TV (collectively referred to herein as the “Full-Power Stations”), as well as six television translator stations, including W17EF. In addition, WVEBA holds the licenses for twelve full-power non-commercial educational radio stations and associated FM translator and FM booster stations.

In 2017, WVEBA learned that it would be required to transition the three Full-Power Stations to new channels as part of the repacking process, in addition to five of its TV translator stations that were displaced as a result of the incentive auction, including W17EF (these stations collectively referred to herein as the “Displaced Translator Stations,” and together with the Full-Power Stations, the “Stations”). Thus, over the last several years, WVEBA has been tasked with balancing the transition of three full-power television stations and simultaneously addressing the

¹ See Incentive Auction Task Force and Media Bureau Remind Repacked Stations of Certain Post-Auction Transition Requirements and Deadlines, Public Notice, DA 18-884 (rel. Aug. 27, 2018) at ¶ 13 and n. 34. (“Stations may also seek a waiver of the tolling rule to receive additional time to construct in the case where ‘rare or exceptional circumstances’ prevent construction.” (citing 1998 Regulatory Review - Streamlining of Mass Media Applications, Rules and Processes, Memorandum Opinion and Order, 14 FCC Rcd 17525, 17536, ¶ 42 (1999)).

² See *Northeast Cellular Telephone Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990).

³ See W. Va. Code § 10-5-1.

need to find displacement channels for five translator stations, all while continuing to manage the day-to-day operations of its television and radio network.

As the Commission is already aware, WVEBA is a state-funded governmental entity with limited resources, and is required to comply with the State's laws and procedures regarding the procurement of goods and services.⁴ These laws require, *inter alia*, that equipment purchases in excess of \$25,000 be put out for competitive bidding, a process that is time and resource intensive, and is managed by the State procurement office.⁵ Under rules established by the State of West Virginia Purchasing Division, WVEBA could not start the lengthy procurement process for the Stations until it had adequate funds on hand to pay the winning vendor.⁶ For WVEBA, this did not occur until March 14, 2019, when the Governor of West Virginia signed into law an appropriations bill providing WVEBA with \$7.36 million to implement the repack for the Stations.⁷

When the funding for the post-auction transition for the Stations was finally made available, WVEBA was necessarily forced to prioritize construction on the three Full-Power Stations first, all of which had earlier construction deadlines, before it could initiate work on the Displaced Translator Stations. WVEBA started with WNPB-TV, which was assigned to transition to its post-auction channel at the end of Phase 4 on August 2, 2019. With a staff of only three engineers for the entire WVEBA television and radio network, WVEBA simply did not have the resources to initiate the complicated State procurement process for the equipment required for the two other full-power stations until such time as the WNPB-TV facility was fully constructed – much less to begin that process for the five displaced translator stations.⁸ As a result, construction on W17EF and the other Displaced Translator Stations could not begin until after the three Full-Power Stations were fully constructed, and was thus delayed from the start.

⁴ See W. Va. Code § 5A-1-10 (2019) (requiring that all spending units use competitive bidding process to purchase commodities wherever possible).

⁵ See W. Va. Code § 5A-3-11.

⁶ See West Virginia Purchasing Division Procedures Handbook, § 6.6 (“Requisitions submitted to the Purchasing Division are to include proper encumbrance information for purchase orders to be encumbered by the Purchasing Division’s Communication and Technical Services Unit. Agencies must designate the appropriate account(s) from which funds to pay for a contract will be taken prior to a contract being awarded”), *available at* <http://www.state.wv.us/admin/purchase/handbook/2020/handbook.pdf> (last visited June 23, 2020).

⁷ See S.B. 681, 84th Leg., Reg. Sess. (W. Va. 2019); *see also* Phil Kabler, Public Broadcasting Tech Upgrades Get Boost with \$7.36 Million Appropriation, *Charleston Gazette-Mail*, *available at* https://www.wvgazettemail.com/news/public-broadcasting-tech-upgrades-get-boost-with-million-appropriation/article_c136c53b-6938-5278-8d54-5f65f0640546.html.

⁸ In most cases, the State’s procurement office required WVEBA to submit separate technical specifications for the various equipment required for WNPB-TV, WSWP-TV, and WVPB’s post-auction facilities. Drafting the necessary technical specifications as required by the procurement office was a resource-intensive project, such that WVEBA could not dedicate staff to writing multiple specifications concurrently while still managing its day-to-day engineering needs and implementing the WNPB-TV repack. Indeed, WVEBA’s small engineering team was tasked with balancing the repack schedule for all three WVEBA full-power television stations while concurrently managing the day-to-day engineering tasks for WVEBA’s statewide network of television and radio stations, addressing unforeseen repairs (e.g., replacing two failed radio transmitters), and finding vacant channels for its five television translator stations that were displaced by the repack.

This initial setback was compounded by additional delays beyond WVEBA's control that arose during the construction process for the three Full-Power Stations, which, consequently, delayed WVEBA's ability to begin work on W17EF. As an initial matter, the WNPB-TV construction project was quite challenging, as it involved installing the station's new post-auction main antenna via a gin pole in the midst of a West Virginia winter, including heavy ice that stalled installation efforts more than once. Despite these challenges, WVEBA successfully completed construction of WNPB-TV's post-auction facility in February 2020.⁹

Once construction of the WNPB-TV post-auction facility was completed, WVEBA turned its focus to completing the post-auction facilities for its two other Full-Power Stations – WVPB and WSWP-TV – both of which were scheduled to transition in Phase 10. To this end, WVEBA had to work with the State procurement office on requisition requests that met the office's requirements for competitive bidding and complete the bidding processes required to obtain the equipment needed to complete construction on these stations – a process that, in some instances, took the procurement office much longer than WVEBA expected.¹⁰ Even once procurement was complete, WVEBA encountered further delays beyond its control, including delayed equipment deliveries and setbacks due to severe winter weather. For instance, GatesAir ("Gates"), the vendor from whom WVEBA purchased WSWP's channel 8 transmitter, had initially told WVEBA that the transmitter would be delivered in August 2020 but subsequently notified WVEBA that transmitter delivery would be further delayed because the necessary mask filter was not yet available. Despite WVEBA's efforts to expedite delivery of the transmitter, Gates did not deliver it to WVEBA until early October 2020.

Similarly, although WVEBA had been working diligently to complete construction on WVPB's post auction facility, it was significantly delayed by the onset of three significant winter weather events, including a snowstorm in mid-February 2021, an ice storm just a few days later, and a rain storm thereafter that flooded the roads leading to the site and temporarily rendered it inaccessible to the crew. Construction on the Full-Power Stations was further complicated due to the COVID-19 pandemic, which made it more difficult to secure the work crews needed to complete installation and construction. As a result of these delays, WVEBA ultimately did not complete construction on the last of its three Full-Power Stations until July 15, 2021, and, consequently, could not begin work on the Displaced Translator Stations until late last summer.¹¹ WVEBA is now balancing construction activities for the five remaining Displaced Translator Stations, including W17EF, with a limited engineering staff.

III. Status of Construction on W17EF

Despite the limitations described above related to limited engineering staff, scarce resources, and construction delays, WVEBA has made its best efforts to advance the construction process for W17EF. W17EF historically operated on channel 30. After channel 30 was reallocated as part of the incentive auction, WVEBA submitted an application for authority to construct displacement facilities for W17EF on channel 17 during the FCC's Special

⁹ See WNPB-TV License to Cover (LMS File No. 0000106559).

¹⁰ For a full account of the delays encountered by WVEBA in completing the procurement process for WSWP-TV, please see LMS File No. 000151301.

¹¹ See WSWP-TV License to Cover (LMS File No. 0000152886).

Displacement Window.¹² The FCC granted this application on January 29, 2019 and specified a three-year period for W17EF to construct the channel 17 displacement facility.

In order to expedite the construction process for W17EF and avoid further delays, WVEBA entered into an open-ended, turnkey services contract with an outside vendor, Pillar Innovations (“Pillar”), pursuant to which the entire procurement, construction, and installation process for W17EF and its sister stations has been outsourced to Pillar.¹³ This solution was intended to help to expedite the construction process for the Stations by allowing WVEBA to reduce the delays associated with the State purchasing process by making Pillar responsible for procuring all of the equipment and additional resources necessary to complete the transition to channel 17, as well as providing the work crews necessary to complete the installation process, up to a \$500,000 spending limit per district. Once the \$500,000 limit has been met, a competitive bidding process must be conducted before additional purchases can be made.

W17EF falls within the northern district of West Virginia, which also includes WVEBA’s Keyser (W41DK), Martinsburg (W08EE), and Romney (W21DZ) stations.¹⁴ Because the Keyser and Martinsburg sites had earlier construction deadlines, WVEBA prioritized the construction on these two stations ahead of W17EF and W21DZ.¹⁵ Unfortunately, a number of serious technical issues were discovered during the structural analyses for both the Keyser and Martinsburg sites, which necessitated additional expenditures, that, when combined with previous expenditures, caused WVEBA to effectively reach the \$500,000 limit provided for in the Pillar contract much earlier than anticipated, on November 23, 2021. As a result, WVEBA was forced to put all plans for construction on W17EF on hold until it was able to complete a new competitive bidding process for the northern district. WVEBA promptly submitted a new solicitation to the State purchasing office on December 8, 2021,¹⁶ but a new contract was not awarded until March 1, 2022.¹⁷ Pursuant to State law, WVEBA was prohibited from discussing any work covered by the solicitation with prospective bidders between the time the solicitation documents were submitted and the time the new contract was awarded. Accordingly, WVEBA’s staff was unable to discuss W17EF with the tower crews, or do any other work on W17EF, during this period.

¹² See LMS File No. 0000054635.

¹³ For a copy of the original Pillar Innovations contract, please see WVEBA’s last tolling waiver request for W21DZ, LMS File No. 0000180610, at Exhibit C.

¹⁴ For a full list of WVEBA’s tower sites by district, please see WVEBA’s last tolling waiver request for W21DZ, LMS File No. 0000180610, at Exhibit D.

¹⁵ The construction permits for WVEBA’s Keyser and Martinsburg stations were initially set to expire on July 6, 2021 and August 15, 2021, respectively, and were subsequently extended to February 15, 2022 (*see* LMS File Nos. 0000054635 and 0000054634). A second set of requests for waiver of the FCC’s tolling standard were submitted on February 15, 2022, and are currently pending for both stations (*see* LMS File Nos. 0000184886 and 0000184888).

¹⁶ For email correspondence between WVEBA’s staff and the State purchasing office documenting the submission and processing of the new solicitation documents, please see WVEBA’s last tolling waiver request for W21DZ, LMS File No. 0000180610, at Exhibit E.

¹⁷ For a copy of WVEBA’s new contract with Pillar, which became effective March 1, 2022, please see WVEBA’s last tolling waiver request, LMS File No. 0000180610, at Exhibit F.

At the time the new contract was awarded, WVEBA's engineering team was desperately understaffed, with only one engineer responsible for managing both WVEBA's day-to-day operations and supervising its construction projects in the Northern District. As the Commission is already aware, WVEBA unexpectedly lost two of its full-time broadcast field engineers in December, both of whom were long-time employees of WVEBA and had been leading its construction efforts for years.¹⁸ This was part of a larger turnover at WVEBA during which a total of approximately 20 employees left the organization, so WVEBA was struggling to maintain its daily operations with an extremely limited staff while simultaneously trying to hire and train a large number of replacement employees. Most relevant to this waiver request, WVEBA was not able to hire a new Director of Engineering until May 9, 2022.¹⁹

Additionally, several emergency situations arose outside of WVEBA's control during the second quarter of 2022 that further diverted resources and engineering staff away from its construction efforts on the Displaced Translator Stations. First, on May 17, 2022, a tree fell on guy lines at WVEBA's Barkers Ridge transmitter site,²⁰ which required emergency repairs.²¹ Also in May and July, WVEBA's Garfield transmitter site²² was burglarized and robbed of equipment on two separate occasions, which also required immediate attention.²³ Additionally, the Garfield transmitter site experienced catastrophic lightning strikes that damaged TV and ASI converters and an FM transmitter that are housed there, taking the central and northern parts of WVEBA's state TV network offline temporarily.²⁴ Finally, the ENG truck that WVEBA's engineering team uses as its primary form of transportation blew an engine and was placed in the shop for repairs on June 14. As a result, WVEBA had to devote substantial time to finding a suitable replacement vehicle, which was not obtained until early July.²⁵ The lack of transportation during this time period created a severe work backlog at WVEBA's 23 transmitter sites, including W17EF.

Despite these limitations and delays, WVEBA has made significant progress on its construction efforts for the channel 17 facilities since the new contract was awarded in March. First and foremost, WVEBA has ordered an antenna and transmitter for these facilities. Specifically, WVEBA began working to obtain quotes from vendors for the antenna and transmitter equipment needed to complete construction for W17EF on April 7, 2022.²⁶ WVEBA

¹⁸ For additional documentation related to these staff departures, please see WVEBA's last tolling waiver request for W17EF, LMS File No. 0000180610, at Exhibits A and B.

¹⁹ Tyler Garner, WVEBA's new Director of Engineering, arrived at WVEBA on May 9, 2022. Documentation showing his start date is attached hereto as **Exhibit A**.

²⁰ WVEBA's Barkers Ridge transmitter site is used to broadcast TV station 33 WVPB and FM station 89.9 WVVV.

²¹ A photo of the damage to the Barkers Ridge transmitter site on May 17 is attached hereto as **Exhibit B**.

²² WVEBA's Garfield transmitter site is used to broadcast FM station 88.5 WVPB.

²³ Correspondence documenting the burglaries at the Garfield transmitter site is attached hereto as **Exhibit C**.

²⁴ Correspondence documenting the damage that occurred at the Garfield transmitter site due to lightning strikes is attached hereto as **Exhibit D**.

²⁵ Documentation regarding WVEBA's replacement vehicle is attached hereto as **Exhibit E**.

²⁶ Email correspondence requesting price quotes for the antenna and transmitter on April 7, 2022 is attached hereto as **Exhibits F and G**, respectively.

received a sample azimuth pattern for W17EF on April 12 and obtained price quotes for the antenna and transmitter on April 21 and May 17, respectively.²⁷ WVEBA subsequently submitted purchase orders for the antenna and transmitter on May 25, and Pillar ordered that equipment shortly thereafter.²⁸ WVEBA also obtained on June 1 an estimate for the labor required to install the necessary equipment onsite.²⁹ WVEBA has been informed by its equipment vendors that the antenna will likely be shipped by early August and the transmitter will be shipped the week of July 25.³⁰

Finally, WVEBA is also working to complete a structural analysis on the site, but has encountered some delays. Specifically, the tower WVEBA uses for W17EF is owned by Nexstar, which leases space to both WVEBA and AT&T. Before WVEBA can initiate the structural analysis for the site, WVEBA needs access to certain background documentation, including structural drawings, that is in Nexstar's possession. WVEBA's engineering team has repeatedly contacted Nexstar's engineer to request this documentation, but did not receive a response until July 15. WVEBA's Director of Engineering sent a follow up request for this information on July 17.³¹

Once the structural analysis has been completed and the antenna and transmitter have been delivered, WVEBA can arrange for a work crew to begin the process of installing the equipment at the tower site. WVEBA anticipates that this work will be completed no later than November 30, 2022.

IV. Grant of this Request Will Serve the Public Interest

In light of the special, rare, and exceptional circumstances described herein, waiver of the tolling standard to provide WVEBA with additional time to complete construction of the Channel 17 facilities for W17EF is warranted. Grant of this request to extend the Channel 17 Displacement CP to November 30, 2022 will not harm the public interest because W17EF has not yet received notice of displacement, and will affirmatively advance the public interest because it will enable W17EF to serve viewers with important non-commercial educational programming in the future.

²⁷ A copy of the sample azimuth pattern received on April 12, 2022 is attached hereto as **Exhibit H**. The price quotes for the antenna and transmitter are attached hereto as **Exhibits I and J**, respectively. Please note that pricing information related to the transmitter has been redacted from the exhibits in order to comply with a confidentiality provision in WVEBA's contract with the vendor.

²⁸ Purchase orders for the antenna and transmitter are attached hereto as **Exhibits K and L**, respectively.

²⁹ A labor estimate for the onsite installation work, dated June 1, 2022 is attached hereto as **Exhibit M**.

³⁰ Correspondence regarding the estimated delivery dates for the antenna and transmitter are attached hereto as **Exhibits N and O**, respectively.

³¹ Follow-up correspondence from WVEBA's Director of Engineering to Nexstar's engineer is attached hereto as **Exhibit P**.

Exhibit A

Hiring Documentation for Tyler Garner, Director of Engineering

View All 1 of 2 | Document submitted successfully - Pending Approval

Employee Status Maintenance(ESMT) Dept: 0439 ID: 04202200000000071374 Ver.: 1 Function: New Phase: ~~Pending~~ **Final**

Modified By doddkr1, 04/20/2022

Employee

Action:

☐ Undo ☒ Update ☐ Delete

General Information

* Employee ID:	From:
0000163123	05/09/2022
Name:	To:
	12/31/9999
Appointment ID:	* Original Appointment Date:
	05/09/2022
Alternate ID:	Email Address:
Name Prefix:	Enable Field Highlights: <input type="checkbox"/>
	Multiple Personnel Action: <input type="checkbox"/>
First Name:	Correction: <input type="checkbox"/>
TYLER	
Middle Name:	
S	
Last Name:	
GARNER	
Name Suffix:	
Social Security Number:	
██████████	

Assignment Information

* Personnel Action Code:	Step:
ORIGL	
Personnel Action Desc:	Step Desc:
ORIGINAL APPT	
Personnel Action Reason:	Salary Ratio:
HAB	
Personnel Action Reason Desc:	* Table Driven Pay: Do Not Use Table <input type="checkbox"/>
ABV ENTRY	EEO Full-time: Yes <input type="checkbox"/>
* Employment Status:	* Percent Full-time:
A	1.0000
Employment Status Desc:	ACA Full-time: <input type="checkbox"/>
ACTIVE	
* Home Department:	Union Member: <input type="checkbox"/>
0439	Union Local:
Home Department Desc:	Union Local Desc:
EDUCATIONAL BI	
* Home Unit:	Vendor/ Customer:
0439	
Home Unit Desc:	
ADMIN	
Position Number:	
0439P00020	
Position Number Desc:	

Exhibit B

Photo of Damage to Barkers Ride Transmitter Site on May 17th, 2022



Exhibit C

Correspondence Documenting Burglaries at Garfield Transmitter Site

Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Friday, July 15, 2022 2:17 PM
To: Hiner, Virginia
Subject: FW: Ranger theft

****EXTERNAL Email****

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting

From: Tyler Garner
Sent: Thursday, July 14, 2022 12:38 PM
To: Steve Chapman <schapman@wvpublic.org>
Cc: Butch Antolini <bantolini@wvpublic.org>; Kristina Dodd <kdodd@wvpublic.org>
Subject: RE: Ranger theft

Our Garfield Transmitter site was broken into between Monday 11th at 5pm and Tuesday 12th at 10am. The external emergency exhaust fan was ripped off the side of the building and someone slipped inside the building and stole the Ranger NEO 2 Spectrum analyzer. I alerted the police when I arrived at the site on Tuesday. An officer responded, took notes, and bagged and tagged fingerprints and a coffee mug that was left at the site.

Case # I22071211

A BOLO has been put out for the device.

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting

From: Steve Chapman <schapman@wvpublic.org>
Sent: Wednesday, July 13, 2022 5:56 PM
To: Tyler Garner <tgarner@wvpublic.org>
Subject: Ranger theft

Hello Tyler,

To retire the stolen asset in the State database OASIS, I'll need a paragraph describing how the theft occurred and a copy of the police report.

Thanks much,

Steve
681-203-6912

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Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Friday, July 15, 2022 2:17 PM
To: Hiner, Virginia
Subject: FW: Garfield Street Robbery/ Grand Larcony

****EXTERNAL Email****

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting

From: Tyler Garner
Sent: Tuesday, July 12, 2022 12:06 PM
To: Butch Antolini <bantolini@wvpublic.org>; Eddie Isom <eisom@wvpublic.org>; Kristina Dodd <kdodd@wvpublic.org>
Subject: Garfield Street Robbery/ Grand Larcony

Garfield street was robbed last night, July 11, after we had left at 17:00.

They stole a few odds and ends along with one of the ranger pro spectrum analyzers valued at over \$5k. They also broke the exhaust vent for the building.

Cops were called and they came up and took a report, bagged some fingerprint evidence, and took a cup that had been left for further analysis.

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcast
(304) 941-9866

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Exhibit D

Correspondence Documenting Damage Caused by Lightning Strikes at Garfield Transmitter Site

Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Friday, July 15, 2022 2:46 PM
To: Hiner, Virginia
Subject: FW: Garfield

****EXTERNAL Email****

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting

From: Arthur Austin <aaustin@wvpublic.org>
Sent: Friday, July 15, 2022 2:45 PM
To: Tyler Garner <tgarner@wvpublic.org>
Subject: Garfield

Hi Tyler,

After reviewing my notes on the light Strike and what was done on site had to rebuilt the ASI steam into site to wake the tv system up in the north and south still monitoring site for other items we may have over look repair the generator and completely went over the FM transmitter the issues was the fan motor blow fuse in the power supply ,output mods IPA driver, fan sensor switch this took more than three days to do to get it FM back on the air

Arthur Austin
(304)284-1448 C (304)541-7539
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Exhibit E

Correspondence Regarding Replacement Vehicle for WVEBA's Engineering Team

Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Sunday, July 17, 2022 2:31 PM
To: Hiner, Virginia
Subject: FW: 2020 Ford F350

****EXTERNAL Email****

From: Butch Antolini <bantolini@wvpublic.org>
Sent: Wednesday, July 6, 2022 14:43
To: Butch Antolini <bantolini@wvpublic.org>
Cc: Tyler Garner <tgarner@wvpublic.org>
Subject: Re: 2020 Ford F350

Justin,

Thank you very much. Our Chief Engineer, Tyler Garner, will be there to pick the truck up tomorrow morning around 10:30. The check is being sent via FedEx, Priority Overnight so it should be there around the same time. The next time I'm in Elkins I will stop in and introduce myself. If you have any other questions just let me know.

Butch

Butch Antolini
Chief Executive Officer and Executive Director
West Virginia Public Broadcasting
600 Capitol Street
Charleston, WV 25301

304-556-4999 (Office)
304-951-8902 (Mobile)
[**bantolini@wvpublic.org**](mailto:bantolini@wvpublic.org)

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From: Butch Antolini <bantolini@wvpublic.org>
Date: Wednesday, July 6, 2022 at 2:35 PM
To: Tammy Treadway <ttreadway@wvpublic.org>
Subject: Fwd: 2020 Ford F350

Butch Antolini
Chief Executive Officer and Executive Director
West Virginia Public Broadcasting
600 Capitol Street
Charleston, WV 25301

Office 304-556-4999
Mobile 304-951-8902
bantolini@wvpublic.org

From: Justin Jackson <justin.jackson@elkinsauto.com>
Sent: Wednesday, July 6, 2022 1:49:07 PM
To: Butch Antolini <bantolini@wvpublic.org>
Subject: 2020 Ford F350

Butch,

Attached you will find the bill of sale for the 2020 F350. The check can be sent overnight to:

Elkins Fordland
696 Beverly Pike
Elkins, WV 26241

Please let us know if you have any questions and when you are on the way to pick it up.

Thank You

Justin Jackson
Elkins Fordland

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Exhibit F

Correspondence Regarding Price Quote for Antenna

Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Thursday, July 14, 2022 12:09 PM
To: Hiner, Virginia
Subject: FW: Please Quote - WVEBA Romney & Wheeling Antennas
Attachments: W23DR Sample Azimuth Pattern Romney WV.pdf

****EXTERNAL Email****

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting

From: Arthur Austin <aaustin@wvpublic.org>
Sent: Thursday, July 14, 2022 10:47 AM
To: Tyler Garner <tgarner@wvpublic.org>
Subject: FW: Please Quote - WVEBA Romney & Wheeling Antennas

From: Doug Ross <doug@psibroadcast.com>
Sent: Tuesday, April 12, 2022 1:59 PM
To: Arthur Austin <aaustin@wvpublic.org>; Todd Hetrick <toddhetrick@pillarinnovations.com>
Cc: Scott Crawford <scottcrawford@pillarinnovations.com>
Subject: RE: Please Quote - WVEBA Romney & Wheeling Antennas

Art,
Attached is a pattern based on the approach we took for Parkersburg. This pattern can be used for both Romney and Wheeling. It allows you to get close to a true omni pattern but gives you the extra gain for elliptical polarization and 1.5 kW transmitter.
Doug

From: Arthur Austin <aaustin@wvpublic.org>
Sent: Tuesday, April 12, 2022 8:30 AM
To: Doug Ross <doug@psibroadcast.com>; Todd Hetrick <toddhetrick@pillarinnovations.com>
Cc: Scott Crawford <scottcrawford@pillarinnovations.com>
Subject: Re: Please Quote - WVEBA Romney & Wheeling Antennas

Yes

Get [Outlook for iOS](#)

From: Doug Ross <doug@psibroadcast.com>
Sent: Monday, April 11, 2022 10:25:10 AM

To: Todd Hetrick <toddhetrick@pillarinnovations.com>; Arthur Austin <aaustin@wvpublic.org>

Cc: Scott Crawford <scottcrawford@pillarinnovations.com>

Subject: RE: Please Quote - WVEBA Romney & Wheeling Antennas

Hi Art,

What is currently on file is an 8-bay true omni pattern for both Wheeling and Romney. In the current configuration the TPO for each of these stations would be approx.. 2.6 to 2.7 kW.

Originally, Parkersburg was approved for the same 8-bay true omni h-pol. After discussions with Dave, I modified the pattern slightly, keeping it omni directional but increasing the gain slightly to reduce TPO. I also increased the number of bays to 12 and added 30% v-pol. In this configuration the TPO with approx. 235 ft. of 1-5/8" foam line is 1.48 kW. Do you want to use the same approach with Wheeling and Romney?

If you want to drop the TPO slightly from the 1.48 kW we could adjust the polarization ratio to 75/25.

Let me know what works best for you.

Doug

From: Todd Hetrick <toddhetrick@pillarinnovations.com>

Sent: Thursday, April 07, 2022 12:55 PM

To: Doug Ross <doug@psibroadcast.com>; aaustin@wvpublic.org

Cc: Scott Crawford <scottcrawford@pillarinnovations.com>

Subject: RE: Please Quote - WVEBA Romney & Wheeling Antennas

Art,

Just talked with Doug @ PSI. He was wanting some clarity on how you would like to see these 2 new antennas. For keyser, Martinsburg and Montgomery Hill – he said that Dave had some specific changes to these antennas in that they made them 12 bay vs 8 bay and also added vertical components to them.

Can you please call and talk to Doug @ PSI to sort this out?

Thank You

Todd Hetrick

Department Manager – Tower Services & Telecommunications

24 HR Service Line 855-257-1116

Pillar Innovations, LLC

104 Corporate Drive - Morgantown, WV 26501

P - 304.983.8900 x2425 | **F** - 304.983.8905 | **C** - 301.616.6344

www.pillarinnovations.com

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From: Todd Hetrick
Sent: Thursday, April 7, 2022 10:22 AM
To: Doug Ross <doug@psibroadcast.com>
Cc: Art Austin <aaustin@wvpublic.org>; Scott Crawford <scottcrawford@pillarinnovations.com>
Subject: Please Quote - WVEBA Romney & Wheeling Antennas

Doug,

Can you please quote antennas for WVEBA for the following sites:

Romney - W23 DR- D

Wheeling – W30-CO-D

Art will need to specify the elevation in which they will be going.

Any questions please let us know.

Thank You

Todd Hetrick
Department Manager – Tower Services & Telecommunications

24 HR Service Line 855-257-1116

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www.wvpublic.org

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Exhibit G

Correspondence Regarding Price Quote for Transmitter

Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Thursday, July 14, 2022 12:03 PM
To: Hiner, Virginia
Subject: FW: Please Quote - WVEBA Equipment - Romney & Wheeling
Attachments: P6530 W23DR EC702HP Air cooled proposal.pdf; P6531 W30CO EC702HP Air cooled proposal.pdf

****EXTERNAL Email****

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting

From: Arthur Austin <aaustin@wvpublic.org>
Sent: Thursday, July 14, 2022 10:40 AM
To: Tyler Garner <tgarner@wvpublic.org>
Subject: FW: Please Quote - WVEBA Equipment - Romney & Wheeling

From: Jack McAnulty <JMcAnulty@comarktv.com>
Sent: Wednesday, May 18, 2022 7:58 AM
To: Todd Hetrick <toddhetrick@pillarinnovations.com>
Cc: Arthur Austin <aaustin@wvpublic.org>; Scott Crawford <scottcrawford@pillarinnovations.com>
Subject: FW: Please Quote - WVEBA Equipment - Romney & Wheeling

Todd,
I spoke to Art yesterday and confirmed the TPO's.
W23DR 1.58kW TPO
W30CO 1.68kW TPO

The closest we have to the above TPO's is our EC702HP-BB3. Max TPO for this model is 2.2kW. This will give the stations a little headroom.

See attached proposals.

If you have any questions please let me know.

Take care,

Jack

413.575.6933

From: Todd Hetrick <toddhetrick@pillarinnovations.com>
Sent: Monday, May 16, 2022 3:31 PM
To: Jack McAnulty <JMcAnulty@comarktv.com>

Cc: Art Austin <aaustin@wvpublic.org>; Scott Crawford <scottcrawford@pillarinnovations.com>

Subject: RE: Please Quote - WVEBA Equipment - Romney & Wheeling

Jack,

Based on talks with Art – can you please revise the bids for these sites to be for 1500 watt vs what was quoted. Any questions please let us know.

Thank You

Todd Hetrick

Department Manager – Wireless Services

24 HR Service Line 855-257-1116

Pillar Innovations, LLC

104 Corporate Drive - Morgantown, WV 26501

P - 304.983.8900 x2425 | **F** - 304.983.8905 | **C** - 301.616.6344

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From: Jack McAnulty <JMcAnulty@comarktv.com>

Sent: Tuesday, May 3, 2022 6:41 AM

To: Todd Hetrick <toddhetrick@pillarinnovations.com>

Cc: Art Austin <aaustin@wvpublic.org>; Scott Crawford <scottcrawford@pillarinnovations.com>

Subject: RE: Please Quote - WVEBA Equipment - Romney & Wheeling

Todd,

Attached are the quotes you requested.

Apologize for the delay, I got tied up with pre-NAB prep and attending NAB all last week.

NAB is National Association of Broadcasters and they had their trade show last week.

Any questions please let me know.

Jack

From: Todd Hetrick <toddhetrick@pillarinnovations.com>

Sent: Thursday, April 7, 2022 10:24 AM

To: Jack McAnulty <JMcAnulty@comarktv.com>

Cc: Art Austin <aaustin@wvpublic.org>; Scott Crawford <scottcrawford@pillarinnovations.com>

Subject: Please Quote - WVEBA Equipment - Romney & Wheeling

Jack,

Can you please provide pricing for new translators for the WVEBA sites below. Art Austin will have to answer any technical questions you may have.

Romney - W23 DR- D

Wheeling – W30-CO-D

Any questions please let us know.

Thank You

Todd Hetrick

Department Manager – Tower Services & Telecommunications

24 HR Service Line 855-257-1116

Pillar Innovations, LLC

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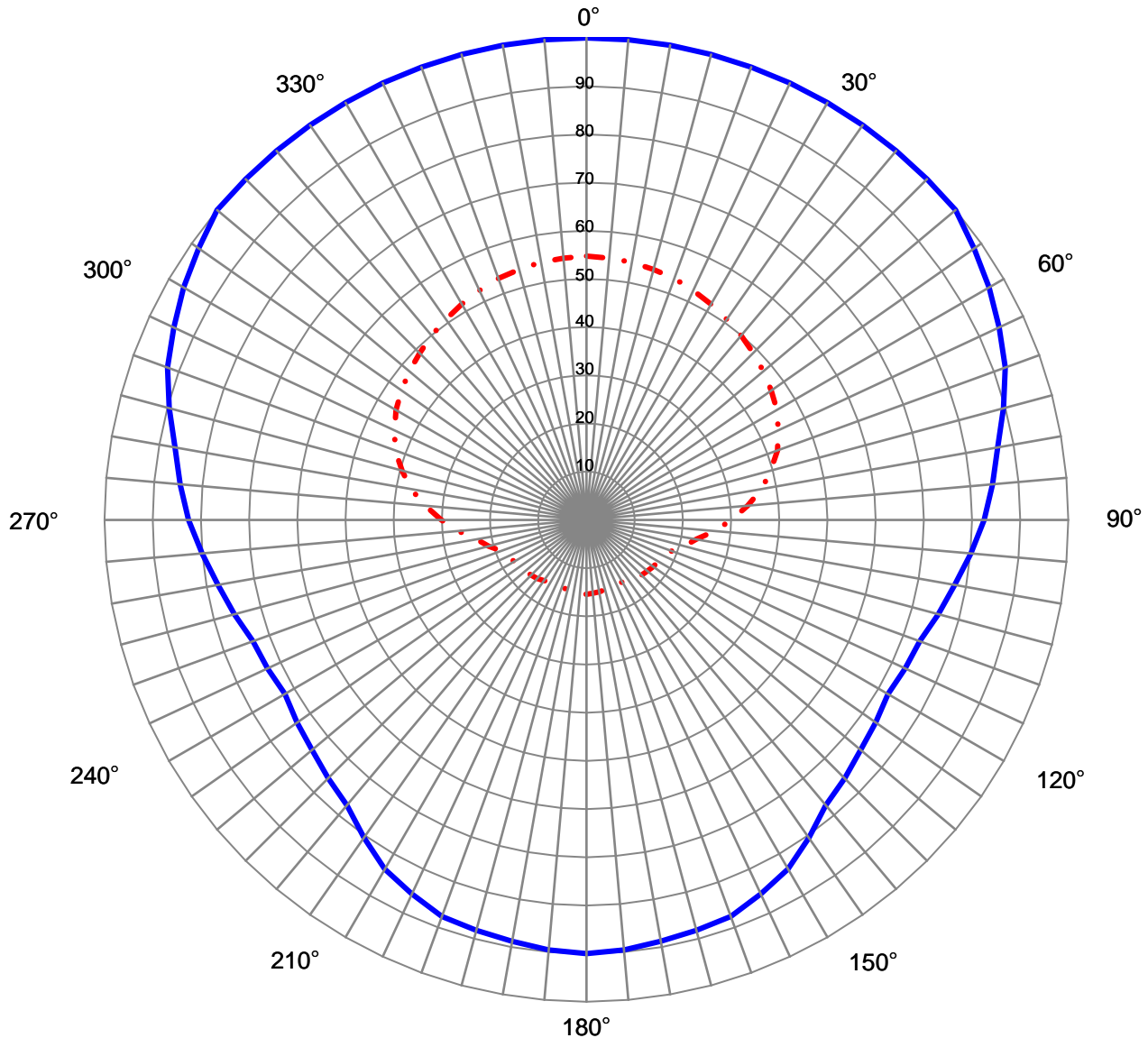
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Exhibit H

Sample Azimuth Pattern



Relative Field Azimuth Plane Pattern



Pattern Type:	Relative Field	Type:	12-Bay Slot
Antenna Model:	PSILP12OIM-21-EP	Orientation:	0 Degrees
Polarization:	Elliptical (70/30)	Call:	W23DR-D
Gain (h-pol):	13.85 (11.41 dB)	Location:	Romney, WV
Gain (V-pol):	4.15 (6.18 dB)	Date:	4/12/2022

Azimuth Pattern Tabulation

Antenna: PSILP12OIM-21-EP

West Virginia Public Broadcasting

Station: W23DR-D

Gain (H-pol): 13.85 (11.41 dB)

Location: Romney, WV

Angle	Relative Field	Power Gain	Gain dB	Angle	Relative Field	Power Gain	Gain dB
0	1.000	13.85	11.41	180	0.900	11.22	10.50
5	1.000	13.85	11.41	185	0.896	11.12	10.46
10	1.000	13.85	11.41	190	0.888	10.92	10.38
15	1.000	13.85	11.41	195	0.882	10.77	10.32
20	1.000	13.85	11.41	200	0.876	10.63	10.26
25	1.000	13.85	11.41	205	0.856	10.16	10.07
30	1.000	13.85	11.41	210	0.837	9.70	9.87
35	1.000	13.85	11.41	215	0.805	8.98	9.53
40	1.000	13.85	11.41	220	0.773	8.28	9.18
45	1.000	13.85	11.41	225	0.758	7.96	9.01
50	1.000	13.85	11.41	230	0.743	7.65	8.83
55	0.982	13.37	11.26	235	0.733	7.44	8.71
60	0.965	12.89	11.10	240	0.723	7.23	8.59
65	0.945	12.36	10.92	245	0.730	7.37	8.68
70	0.925	11.85	10.74	250	0.737	7.51	8.76
75	0.896	11.12	10.46	255	0.756	7.92	8.99
80	0.867	10.41	10.17	260	0.776	8.34	9.21
85	0.846	9.92	9.96	265	0.801	8.88	9.48
90	0.826	9.44	9.75	270	0.826	9.44	9.75
95	0.801	8.88	9.48	275	0.846	9.92	9.96
100	0.776	8.34	9.21	280	0.867	10.41	10.17
105	0.756	7.92	8.99	285	0.896	11.12	10.46
110	0.737	7.51	8.76	290	0.925	11.85	10.74
115	0.730	7.37	8.68	295	0.945	12.36	10.92
120	0.723	7.23	8.59	300	0.965	12.89	11.10
125	0.733	7.44	8.71	305	0.982	13.37	11.26
130	0.743	7.65	8.83	310	1.000	13.85	11.41
135	0.758	7.96	9.01	315	1.000	13.85	11.41
140	0.773	8.28	9.18	320	1.000	13.85	11.41
145	0.805	8.98	9.53	325	1.000	13.85	11.41
150	0.837	9.70	9.87	330	1.000	13.85	11.41
155	0.856	10.16	10.07	335	1.000	13.85	11.41
160	0.876	10.63	10.26	340	1.000	13.85	11.41
165	0.882	10.77	10.32	345	1.000	13.85	11.41
170	0.888	10.92	10.38	350	1.000	13.85	11.41
175	0.896	11.12	10.46	355	1.000	13.85	11.41

Azimuth Pattern Tabulation

Antenna: PSILP12OIM-21-EP

West Virginia Public Broadcasting

Station: W23DR-D

Gain (V-pol): 4.25 (6.18 dB)

Location: Romney, WV

Angle	Relative Field	Power Gain	Gain dB	Angle	Relative Field	Power Gain	Gain dB
0	0.547	4.15	6.18	180	0.154	0.33	-4.81
5	0.545	4.12	6.15	185	0.153	0.32	-4.89
10	0.543	4.08	6.11	190	0.152	0.32	-4.97
15	0.538	4.01	6.03	195	0.150	0.31	-5.07
20	0.533	3.94	5.95	200	0.148	0.30	-5.16
25	0.525	3.82	5.82	205	0.149	0.31	-5.15
30	0.517	3.70	5.68	210	0.149	0.31	-5.14
35	0.508	3.58	5.53	215	0.154	0.33	-4.85
40	0.500	3.46	5.39	220	0.159	0.35	-4.58
45	0.490	3.32	5.21	225	0.162	0.36	-4.39
50	0.480	3.18	5.03	230	0.166	0.38	-4.21
55	0.468	3.03	4.82	235	0.169	0.40	-4.03
60	0.456	2.89	4.60	240	0.172	0.41	-3.85
65	0.439	2.67	4.27	245	0.181	0.45	-3.45
70	0.422	2.47	3.92	250	0.189	0.49	-3.08
75	0.396	2.17	3.37	255	0.210	0.61	-2.14
80	0.370	1.89	2.77	260	0.232	0.74	-1.29
85	0.335	1.56	1.93	265	0.266	0.98	-0.08
90	0.301	1.26	0.99	270	0.301	1.26	0.99
95	0.266	0.98	-0.08	275	0.335	1.56	1.93
100	0.232	0.74	-1.29	280	0.370	1.89	2.77
105	0.210	0.61	-2.14	285	0.396	2.17	3.37
110	0.189	0.49	-3.08	290	0.422	2.47	3.92
115	0.181	0.45	-3.45	295	0.439	2.67	4.27
120	0.172	0.41	-3.85	300	0.456	2.89	4.60
125	0.169	0.40	-4.03	305	0.468	3.03	4.82
130	0.166	0.38	-4.21	310	0.480	3.18	5.03
135	0.162	0.36	-4.39	315	0.490	3.32	5.21
140	0.159	0.35	-4.58	320	0.500	3.46	5.39
145	0.154	0.33	-4.85	325	0.508	3.58	5.53
150	0.149	0.31	-5.14	330	0.517	3.70	5.68
155	0.149	0.31	-5.15	335	0.525	3.82	5.82
160	0.148	0.30	-5.16	340	0.533	3.94	5.95
165	0.150	0.31	-5.07	345	0.538	4.01	6.03
170	0.152	0.32	-4.97	350	0.543	4.08	6.11
175	0.153	0.32	-4.89	355	0.545	4.12	6.15

Exhibit I

Price Quote for Antenna



Propagation Systems, Inc.

Corporate Offices
P.O. Box 113
719 Pensacola Road
Ebensburg, PA 15931 USA
Telephone: 814-472-5540 Fax: 814-472-5676

Proposal #
P42122-DR2

Proposal / Purchase Agreement

Customer: Pillar Innovations, LLC
104 Corporate Drive
Morgantown, WV 26501

Ref. W30CO-D Wheeling, WV

Attention: Todd Hetrick (301.616.6344)
Telephone: 304.983.8900 x2425
Fax: 304.983.8905
Email: toddhetrick@pillarinnovations.com

Terms N30 with Purchase order

Delivery 6-8 Weeks ARO & Technical details
FOB Ebensburg, PA 15931 USA
Quote Date 4/21/2022
Valid thru 7 Days from above date
Customer ID FAC 167354
Sales Rep Doug
Doug@psibroadcast.com

Quantity	Description	Unit Price	TOTAL
1	<u>W30CO-D Wheeling, WV Antenna System</u> PSILP12OIM-17-EP 12-Bay UHF Low Power Slot Antenna for Digital Channel 17 Elliptical polarization (70/30), 1-5/8" EIA end fed input, 5 kW power rating, "OIM" modified omni directional pattern, 1.0 degree beam tilt, smooth null fill, H-pol gain 13.85 (11.41 dB) V-pol gain 4.15 (6.18 dB). Light weight aluminum construction with slot cover design.		
1	Custom standoff support brackets		
275	Eupen 1-5/8" Foam coaxial cable		
1	1-5/8" EIA connector factory installed first off reel		
1	1-5/8" EIA connector packed loose		
2	1-5/8" anchor insulator connector		
2	Hoist grip		
9	Snap in hanger kits		
3	Grounding kit		
1	Entry panel		
1	Entry boot		

Customer Acceptance

Upon customer signing, and acceptance by an authorized Propagation Systems, Inc. representative, this document constitutes a contract and customer agrees to be bound by all the terms, hereof, including Propagation Systems, Inc. Terms and Conditions of Sale which are an integral part of this offer.

Subtotal \$24,966.19

Freight TBD

TOTAL \$24,966.19

Customer Signature

Date

Print Name and Title

Company Name

Prepared by:

Douglas A. Ross, President

PSI Website : <http://www.psibroadcast.com>

Corporate Email : sales@psibroadcast.com

Exhibit J

Price Quote for Transmitter



Hitachi Kokusai Electric Comark LLC Proposal

P#6531-EC702HP-BB3-050222

For

MPTV Low/Medium Power Digital Television Transmitter

Prepared for:

Todd Hetrick

West Virginia Educational Broadcasting Authority

304-983-8900 x2425

toddhetrick@pillarinnovations.com





PROPOSAL REFERENCE #:
P#6531-EC702HP-BB3-050222

Hitachi Kokusai Electric Comark LLC

104 Feeding Hills Road
Southwick, MA 01077
TEL: (413) 998-1100
FAX: (413) 998-1194

FEIN#27-4660540

Westfield Bank
141 Elm Street
Westfield, MA 01086
ABA#211871604
Account #1001323052
Swift Code: WFLDUS33

Subject: MPTV Low/Medium Power Digital Television Transmitter

Call Letters/ID: W30CO, Ch 17
Wheeling, WV

Attn: Todd Hetrick
Group Owner West Virginia Educational Broadcasting Authority
Phone: 304-983-8900 x2425
Email: toddhetrick@pillarinnovations.com

Contact: Jack McAnulty
Phone: 413-998-1523
Email: jmcanulty@comarktv.com
Proposal Date: 05/17/22
Validity: 60 days

Item	Model #	Description	Qty	Unit Price USD	Sell Total USD
1	EC702HP-BB3	2200w UHF Air Cooled Digital Transmitter (Wideband Doherty High Efficiency)	1		
2	MISC-AUX	AUXILIARY EQUIPMENT & SERVICES	1		
Net Price:					

Payment and Delivery:

Payment Terms:
Incoterm 2010:
Delivery:

60 - 90 days ARO



PROPOSAL REFERENCE #:
P#6531-EC702HP-BB3-050222

Hitachi Kokusai Electric Comark LLC

104 Feeding Hills Road
Southwick, MA 01077
TEL: (413) 998-1100
FAX: (413) 998-1194

FEIN#27-4660540

Westfield Bank
141 Elm Street
Westfield, MA 01086
ABA#211871604
Account #1001323052
Swift Code: WFLDUS33

General Conditions:

This quotation contains proprietary information and it may not to be divulged to any third party without the expressed written consent of Hitachi Kokusai Electric Comark LLC

This Proposal and all sales hereunder shall be subject to the attached Sales Terms and Conditions. Although the customer may include or reference its standard forms for orders or other notices hereunder, such standard forms will be superseded by the terms and conditions of this proposal including the attached Sales Terms and Conditions and any term or condition in such standard forms that is inconsistent with or in addition to the terms and conditions of this Proposal shall this Proposal shall have no force or effect.

If this proposal is acceptable, please sign below and fax a copy to Hitachi Kokusai Electric Comark LLC (413) 998-1178.

Please attach a copy of a tax exempt certificate (if applicable). Please reference this Proposal Number on all Purchase Orders.

Credit Card Policy:

If paying by credit card please note that Hitachi Kokusai Electric Comark LLC has a credit card policy. All prices quoted have a 3.25% cash discount built into the price. Any purchase made with a credit or debit card will not receive the cash discount. A non-cash discount adjustment will be applied to your credit card receipt. Refer to comarktv.com/about-us/credit-card for more details.

Special Conditions:

None.

Purchaser's Acceptance

Proposal # **P#6531-EC702HP-BB3-050222**

Purchaser's Name: **West Virginia Educational Broadcasing Authority**

Signature:

Title:

Date:

Bill To:

Ship To:



Hitachi Kokusai Electric Comark Proposal

P#6531-EC702HP-BB3-050222

Equipment & Services

W30CO, Ch 17

All Prices In US Dollars

ITEM	QTY	PART NO.	DESCRIPTION	UNIT PRICE	EXTN'D PRICE
			Family - EC700HP-BB3 Series Model - EC702HP-BB3 DTV Standard ATSC – 8 VSB DTV Channel - D17 ATSC 1.0 System Output: 2.2kW after mask filter Amplifier Type LDMOS Doherty Input Voltage/Frequency 208 VAC 3-phase		

1 1 **EC702HP-BB3** **EC702HP-BB3 2200W UHF Air cooled Digital TV Transmitter**

Inclusive features of the entire *EC700HP-BB3* Series product line are:

- > Fully Solid State, 50VDC LDMOS devices
- > Digital Precorrector
- > Broadband Doherty High Efficiency UHF Power Amplifiers

Transmitter System Includes:

1.1 1 **Exciter/Control/Amplifier containing:**

1.1.1 1 **EXACT-V2 UHF TV 8VSB Exciters containing:**

- > Reed Solomon Error Correction Coding
- > Data Randomization
- > Data Interleaving and Trellis coding
- > Side Band Correction
- > Digital Adaptive Precorrection DAP™
- > ATSC 1.0, upgradeable to ATSC 3.0
- > Remote Interface

1.1.2 1 CM8001 **System controller / user interface (1 required per exciter)**

1.1.3 3 **Power Amplifier with:**

- 1100 Watts RMS per amplifier chassis
- Standard Input Voltage: 220V single phase
- Internal chassis cooling fans variable speed
- 3RU Rack-Mount Chassis

1.1.4 1 **Equipment rack cabinet 27RU space with AC power distribution**

1.1.5 1 **RF Load assembly, 3RU chassis mount air cooled**

1.2 1 **RF Output Filter (FCC Full Service Mask Compliant)**

1.2.1 1 BPF-8-U-3000 > Reflective 8 Pole RF Mask Filter, CC3000W

1.3 1 OPT-ACC-1500 **Accessory kit**

1.2 1 **Instruction Book Set on USB Memory Stick**

1.3 1 S25 **Standard Warranty**

COMARK's standard warranty one (1) year warranty from date of delivery.
All other terms, conditions, and limitations shall apply.

Total Transmitter Price Ex-Factory

2 **MISC-AUX** **AUXILIARY EQUIPMENT & SERVICES**

2.1 1 **Crating, Handling and Estimated Shipping to site**

Total Auxiliary Ex-Factory

Grand Total \$

Exhibit K

Antenna Purchase Order

Form Detail

To edit the Power Office Form, click Edit below. To print the Power Office Form, click Print below. To email the Power Office Form, click Email below. Post-approval changes shown in red. [Edit help](#)



West Virginia
Educational Broadcasting Authority

PURCHASE ORDER for WVEBA
(STATE OF WEST VIRGINIA)

Vendor:

Pillar Innovations LLC
104 Corporate Drive
Morgantown, WV 26501
Todd Hetrick
Phone: 304.983.8900 x2425
Fax:
toddhetrick@pillarinnovations.com
OASIS# 000000186939

Deliver To:

West Virginia Public Broadcasting
191 Scott Ave.
Morgantown WV 26508

Delivery Date
06/08/2022

Terms
Net 30

Ship Via
None

Item No	Description	Qty.	Account.	Unit Price	Ext Price
Antenna	New transmission antenna for re-pack	1	Engineering	37,800.00	37,800.00
Labor-standard	Standard tower labor	150	Engineering	90.00	13,500.00
Labor-OT	Overtime tower labor	75	Engineering	126.00	9,450.00
Labor-travel	Tower travel labor	75	Engineering	65.00	4,875.00
Equipment	Equipment to move / unload antenna	1	Engineering	3,000.00	3,000.00
Subcontract	Subcontractor to commission transmitter	1	Engineering		

Submitted By:
Dale Malcomb

Submitted For:
Art Austin

Subtotal

Tax Rate: 0%

Shipping

Total

Attachment	Size
EBAr70952_Pillar_Innovations_LLC_Debar_Verify.pdf	808.80 K
EBAr70952_Pillar_Innovations_LLC_OASIS_Verify.pdf	224.60 K
EBAr70952_Pillar_Innovations_LLC_SAM_Verify.pdf	239.60 K
EBAr70952_Pillar_Innovations_LLC_SOS_Verify.pdf	221.20 K
EBAr70952_ProcessChecklist_EBA.pdf	186.10 K
EBAr70952_PSI_Antenna_Quote.pdf	44.60 K

[EBAr70952 Wheeling Antenna Only POR.pdf](#) 150.20 K
[EBAr70952 Wheeling POR wo Antenna.pdf](#) 151.90 K

For Internal Use <i>To Appear on Purchase Order</i>		
Division: Television	Department: Statewide: Engineering	Project: (If N/A enter NA) Repack

Information below does not appear on Purchase Order

Place staff-only comments below. For example, indicate review materials uploaded, special requirements and information to be used in the approval process.

Rough estimate for replacement of antenna at the Wheeling facility. Will be updated as more accurate information is obtained.

All Items Received?	No
Release to Pay?	No

 Delete	 Copy	 Email	 Print	 Edit	Unapprove
 Close					

Status: Approved

Activity Log

Submitted - 05/25/2022 12:18 P.M. by Dale Malcomb
Dale Malcomb notified - 05/25/2022 12:18 P.M. by Power Office System
Edited - 05/25/2022 12:36 P.M. by Dale Malcomb
Approved - 05/25/2022 12:36 P.M. by Dale Malcomb
Debbie Oleksa notified - 05/25/2022 12:36 P.M. by Power Office System
Approved - 05/25/2022 12:36 P.M. by Dale Malcomb
Eddie Isom notified - 05/25/2022 12:36 P.M. by Power Office System
Approved - 05/25/2022 12:44 P.M. by Eddie Isom
Tammy Treadway notified - 05/25/2022 12:44 P.M. by Power Office System
Approved - 05/25/2022 1:03 P.M. by Tammy Treadway
Butch Antolini notified - 05/25/2022 1:03 P.M. by Power Office System
Approved - 05/25/2022 3:59 P.M. by Butch Antolini
Dale Malcomb notified - 05/25/2022 3:59 P.M. by Power Office System
Approved - 05/25/2022 4:01 P.M. by Dale Malcomb
Dale Malcomb notified of approval - 05/25/2022 4:01 P.M. by Power Office System
Edited ([See backup](#)) - 06/01/2022 2:23 P.M. by Dale Malcomb

Approval Flow

Approver #1: Approved by Dale Malcomb

Dale Malcomb
Steven Grindstaff

Approver #2: Approved by Dale Malcomb

Dale Malcomb
Debbie Oleksa

Approver #3: Approved by Eddie Isom

Eddie Isom

Approver #4: Approved by Tammy Treadway

Tammy Treadway

Approver #5: Approved by Butch Antolini

Butch Antolini

Approver #6: Approved by Dale Malcomb

Dale Malcomb
Steven Grindstaff

Status: Approved

Exhibit L

Transmitter Purchase Order



West Virginia
Educational Broadcasting Authority

PURCHASE ORDER for WVEBA
(STATE OF WEST VIRGINIA)

Vendor:
Pillar Innovations LLC
104 Corporate Drive
Morgantown, WV 26501
Todd Hetrick
Phone: 304.983.8900 x2425
Fax:
toddhetrick@pillarinnovations.com
OASIS# 000000186939

PO No: 22662
Date: 05/25/2022

SPECIAL INSTRUCTIONS FOR BILLING DEPARTMENT

- 1 - The State of West Virginia requires you to provide WV Public Broadcasting with an ORIGINAL invoice.
- 2 - WV Public Broadcasting is tax exempt.
- 3 - Invoice must include:
Complete WV Public Broadcasting mailing address
Date
Our Purchase Order Number
- 4 - All charges must be itemized and extended.
- 5 - State of West Virginia Purchase Order/Contract General Terms and Conditions are a lawfully binding component of this Purchase Order and are found by accessing the Vendor Resource Center at www.state.wv.us/admin/purchase.

Deliver To:
West Virginia Public Broadcasting
191 Scott Ave.
Morgantown WV 26508

MAIL INVOICE IN TRIPLICATE TO:
WV Public Broadcasting
600 Capitol St
Charleston, WV 25301

ALL ITEMS F.O.B. WVPB
WV Public Broadcasting
600 Capitol St
Charleston, WV 25301

If you have questions completing this order,
please call (304) 254-7840

Delivery Date
06/08/2022

Terms
Net 30

Ship Via
None

Item No	Description	Qty.	Unit Price	Ext Price
Antenna	New transmission antenna for re-pack	1	37,800.00	37,800.00
Labor-standard	Standard tower labor	150	90.00	13,500.00
Labor-OT	Overtime tower labor	75	126.00	9,450.00
Labor-travel	Tower travel labor	75	65.00	4,875.00
Equipment	Equipment to move / unload antenna	1	3,000.00	3,000.00
Subcontract	Subcontractor to commission transmitter	1		

Wheeling transmitter was ordered when Pillar Innovations received this PO on 6/1/2022

Submitted By:
Dale Malcomb

Submitted For:
Art Austin

Approved by:

Subtotal
Tax Rate: 0%
Shipping
Total

WV Educational Broadcasting Authority / Date

Vendor Signature / Date

Printed Name, Title

Printed Name, Title

For Internal Use

Division:
Television

Department:
Statewide: Engineering

Project:
Repack

Exhibit M

Cost Estimate for Installation Labor

Vendor Name	Pillar Innovations LL		Quote Reference	Q213210	Date
Oasis Vendor ID	186939				6/1/2022
City	Grantsvill	State	MD	Zipcode	
Purchase Order Request					
Site:	Wheeling	Work Requested By:		Art Austin	
Scope of work					
Mobilize/ demobilize to customer site					
Unload customer supplied antenna/ transmitter at customer site					
Install antenna and cabling on tower per customer spec					
Assist customer with install of transmitter					
Description		Qty	Unit Cost	Markup	Total
Materials					
	1	\$ -	1.26	\$ -	
Rental Equipment					
	1	\$ 2,500.00	1.2	\$ 3,000.00	
Lift equipment to move/ unload antenna					
Sub Contractor - Engineering Services					
	1	\$ 4,000.00	1.15	\$ 4,600.00	
Antenna, line & transmitter comissioning					

Labor				
Travel (Mobilze/ Demobilize)	75	\$ 65.00	1	\$ 4,875.00
Tower, Antenna, Transmission Line & Site Maint (Regular)	150	\$ 90.00	1	\$ 13,500.00
Tower, Antenna, Transmission Line & Site Maint (Overtime)	75	\$ 126.00	1	\$ 9,450.00
Tower, Antenna, Transmission Line & Site Maint (Emergeency)		\$ 149.00	1	\$ -
Tower Lighting Maintenance & Repair (Regular)		\$ 90.00	1	\$ -
Tower Lighting Maintenance & Repair (Overtime)		\$ 126.00	1	\$ -
Tower Lighting Maintenance & Repair (Emergency)		\$ 149.00	1	\$ -
Electrical Maintenance & Repair (Regular)		\$ 75.00	1	\$ -
Electrical Maintenance & Repair (Overtime)		\$ 105.00	1	\$ -
Electrical Maintenance & Repair (Emergency)		\$ 124.00	1	\$ -
Total Est. Labor Hours	300			
Lodging (Oct 2021-Sept 2022 Rates- GSA) (Charleston)		\$ 109.00	1	\$ -
M&IE - Total (Charleston)		\$ 64.00	1	\$ -
M&IE - First/ Last Day (Charleston)		\$ 48.00	1	\$ -
Lodging (Oct 2021-Sept 2022 Rates- GSA) (Morgantown)		\$ 99.00	1	\$ -
M&IE - Total (Morgantown)		\$ 59.00	1	\$ -
M&IE - First/ Last Day (Morgantown)		\$ 44.25	1	\$ -
Lodging (Oct 2021-Sept 2022 Rates- GSA) (All other areas w/o specific rate)		\$ 96.00	1	\$ -
M&IE - Total (All other areas w/o specific rate)		\$ 59.00	1	\$ -
M&IE - First/ Last Day (All other areas w/o specific rate)		\$ 44.25	1	\$ -
Total Est. Perdiem/ M&IE Usage	0			
Total PO Request Amount				\$ 35,425.00
Budgetary Amount Only - This Is Not An Invoice				

Clarifications

Final comissioning of antenna/ line and transmitter to be performed by "others". Budgetary pricing for this listed under "subs" listed above

All services are based on mobilization - port to port from Morgantown, WV

Exhibit N

Correspondence Regarding Antenna Delivery Date

Hiner, Virginia

From: Doug Ross <doug@psibroadcast.com>
Sent: Friday, July 15, 2022 2:40 PM
To: Todd Hetrick
Subject: RE: Art email
Attachments: PSILP12OIM-21-EP Antenna Layout 2419 Romney.pdf

Todd,
Status of each site below.

I need some tower details for brackets and distance to TX building for TX line on Martinsburg, Keyser and Wheeling For Romney I have an estimated line of 250 ft. I don't feel this much line will be required given location of TX building to tower. I feel 225 ft. would be sufficient, can you confirm and I will order this line.

Job 2380

Channel 34 Parkersburg, WV (Montgomery Hill Sie)
Antenna: crated ready for shipment
TX-line: in house ready to ship
Custom mounts: will be picking up custom mounts on Tuesday 19th from galvanizer

Job 2381

Channel: 27 Martinsburg, WV
Antenna: crated ready to ship.
TX-line: need confirmation of length for this site. Delivery 7-10 days from confirmation
Custom mounts: Need tower info. To fabricate

Job 2382

Channel 16 Keyser, WV
Antenna: crated ready to ship
TX-line: need confirmation of length for this site. Delivery 7-10 days from confirmation
Custom mounts: Need tower info. To fabricate

Job 2419

Channel 21 Romney, WV
Antenna: in final test will be done July 20
TX-line: need confirmation of length for this site. Delivery 7-10 days from confirmation
Custom mounts: Bracket drawings attached to email with updated mechanical specification

Job 2420

Channel 17 Wheeling, WV
Antenna: completed and in packing
TX-line: need confirmation of length for this site. Delivery 7-10 days from confirmation
Custom mounts: Need tower info. To fabricate

Call me after reviewing and we can talk about install schedules.
Doug

From: Todd Hetrick <toddhetrick@pillarinnovations.com>

Sent: Thursday, July 14, 2022 2:12 PM

To: Doug Ross <doug@psibroadcast.com>

Subject: RE: Art email

Are you talking about the antenna for romney and wheeling?

Any updates on the antennas for Montgomery Hill, Martinsburg and Keyser?

Thank You

Todd Hetrick

Department Manager – Wireless Services

24 HR Service Line 855-257-1116

Pillar Innovations, LLC

104 Corporate Drive - Morgantown, WV 26501

P - 304.983.8900 x2425 | **F** - 304.983.8905 | **C** - 301.616.6344

www.pillarinnovations.com

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From: Doug Ross <doug@psibroadcast.com>

Sent: Thursday, July 14, 2022 2:10 PM

To: Todd Hetrick <toddhetrick@pillarinnovations.com>

Subject: Art email

Todd,

I hope Art understands we are building both antennas currently. They should be done in about 10 working days.

I will have a new Romney layout done tomorrow. We have tried to make the mounts fully adjustable to compensate for various tower leg sizes and tower face tapers.

Douglas A. Ross



Propagation Systems, Inc.

Phone: 814-472-5540

Fax: 814-472-5676

doug@psibroadcast.com

www.psibroadcast.com

Exhibit O

Correspondence Regarding Transmitter Delivery Date

Hiner, Virginia

From: James York <JYork@comarktv.com>
Sent: Thursday, July 14, 2022 3:07 PM
To: Todd Hetrick
Cc: Jack McAnulty; Arthur Austin
Subject: RE: Status Update - WVEBA - W23DR-D CH21 & W30CO-D CH17

Hello Todd,

Currently we are scheduled to ship the first half of the week starting 7/25. The Channel filters are shipping to us this week and should be here next week for testing with the transmitter.

Feel free to give me a call if you have any questions.

Br
Jim

James York
Sr. Program Manager



Hitachi Kokusai Electric Comark LLC
Tel: +1 413 998 1130
Cell: 678-557-9095
www.comarktv.com

From: Todd Hetrick <toddhetrick@pillarinnovations.com>
Sent: Thursday, July 14, 2022 2:37 PM
To: James York <JYork@comarktv.com>
Cc: Jack McAnulty <JMcAnulty@comarktv.com>; Arthur Austin <aaustin@wvpublic.org>
Subject: Status Update - WVEBA - W23DR-D CH21 & W30CO-D CH17

James,

Can you please provide an estimated lead time for the completion/ delivery of the units for these sites?

Thank You

Todd Hetrick
Department Manager – Wireless Services

24 HR Service Line 855-257-1116

Pillar Innovations, LLC
104 Corporate Drive - Morgantown, WV 26501

P - 304.983.8900 x2425 | **F** - 304.983.8905 | **C** - 301.616.6344

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Exhibit P

Correspondence Requesting Documentation Needed for Structural Analysis

Hiner, Virginia

From: Tyler Garner <tgarner@wvpublic.org>
Sent: Sunday, July 17, 2022 3:24 PM
To: Hiner, Virginia
Subject: FW: Wheeling Tower - Structural Analysis Documentation

Importance: High

****EXTERNAL Email****

From: Tyler Garner
Sent: Sunday, July 17, 2022 15:23
To: bjenkins@nextar.tv
Cc: Butch Antolini <bantolini@wvpublic.org>; toddhetrick@pillarinnovations.com
Subject: Wheeling Tower - Structural Analysis Documentation
Importance: High

Brett,

Following up on our conversation on Friday (7/15/22) afternoon, West Virginia Public Broadcast and Pillar need the necessary documentation to complete a structural analysis on the tower at Wheeling that we lease from you. Could you put us in contact with your Engineer of Record for the Wheeling site, so that we may get started on our analysis to complete our repack?

Tyler Garner
Director of Engineering and IT
West Virginia Public Broadcasting
tgarner@wvpublic.org
Office: (304) 556-4914
Cell: (304) 941-9866

West Virginia Public Broadcasting
"Telling West Virginia's Story"
www.wvpublic.org

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