



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **65944** | Service: **DTV** | Call **WMPB** | Channel: **22 (UHF)** |  
ID: | Sign:  
File **0000027906**  
Number:  
FRN: **0003857380** | Date **08/24**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>MARYLAND PUBLIC BROADCASTING COMMISSION</b> Doing Business As: MARYLAND PUBLIC TELEVISION	Larry D. Unger, President & CEO 11767 OWINGS MILLS BOULEVARD OWINGS MILLS, MD 21117 United States	+1 (410) 356- 5600	lunger@mpt.org	Government Entity

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Samuel Hariton</b> <i>Widely Inc.</i>	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widely.com

**Broadcaster  
Information  
and  
Transition  
Plan**

Question		Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.		No
Briefly describe transition plan		Current transmission system consists of a transmitter feeding a transmission line which connects to an antenna on the tower. Work includes connecting new repack channel main/aux transmitters to current broadband line and antenna.

**Transmitters**

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Auxiliary  
Transmitter****Add Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Used in case of failure of the main
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TDU2- 5K00LV
	Year	2003
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	5.0 kW

**Auxiliary  
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	MPTV-PRLX- U4
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	6.5 kW
	Justification for New Transmitter	Current transmitter is not supported for a channel change. See attached Transmitter Replace justification letter from manufacturer. An increase of power is part a multi-station agreement provided to the FCC to accommodate moving WETA to channel 31.

**Auxiliary  
Transmitter****Other Transmitter Costs**

Section	Question	Response
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<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary  
Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>Rigid Coax Line</b>	Rigid interconnection coax lines from transmitter to filter to antenna switch.
<b>Motorized Switch</b>	Switches which transmitter will feed the mask filter. This is not an upgrade as station uses a motorized switch. Current switch can't be utilized and have station remain on-air.
<b>Bag Filter</b>	Bag type water filtration for heat exchanger system. Current pre-repack cooling system has this filtering.
<b>Remote Control Interface</b>	License required to interface transmitter into current remote control system
<b>Coolant</b>	The coolant used for the transmitter heat exchanger is not included in the transmitter price

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TDU2- 5K00LV
	Year	2003
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	5.0 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	MPTV-PRLX-U4
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	6.5 kW
	Justification for New Transmitter	Current transmitter is not supported for a channel change. See attached Transmitter Replace justification letter from manufacturer. An increase of power is part a multi-station agreement provided to the FCC to accommodate moving WETA to channel 31.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No



	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary  
Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>Primary Transmitter Installation</b>	Primary transmitter install and materials
<b>12-Pole Mask Filter</b>	Sharp tuned mask filter to further protect adjacent channel Class A WMJF-CD, Ch. 23 and WMPT, Ch 21. Part of a multi-party resolution provided to the FCC to accommodate moving WETA to channel 31 .
<b>Bag Filter</b>	Bag type water filtration for heat exchanger system. Current pre-repack cooling system has this filtering.
<b>Site Design and Survey</b>	Incorporates all aspects of the transmitter room design, including power distribution requirements, equipment placement, RF system layout, plumbing, and remote control.
<b>Motorized Switch</b>	Electric actuated switch to switch main /auxiliary transmitters into antenna. Current transmitter has this capability but switch cannot be moved as it is in pre-repack service.
<b>Coolant</b>	The coolant used for the transmitter heat exchanger is not included in the transmitter price
<b>Remote Control Interface</b>	License required to interface transmitter into current remote control system
<b>Rigid Coax Line</b>	Rigid interconnection coax lines from transmitter to filter to antenna switch.

**Antennas**

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	No

**Transmission Line**

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

**Primary  
Transmission Line****Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	Other
	Other Diameter	7 inches
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1000 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name		Description
Primary Transmission Line - Tune Elbows		Primary Transmission Line - Tune Elbows

**Tower  
Equipment  
And  
Rigging  
Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	No

**Outside  
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	200
	Explanation	Applicant has limited internal resources to oversee installing and commissioning this repack project. It will rely on outside services to manage all work required.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	1

	Justification	Electrical sweep to evaluate suitability of antenna and line on repack channel. 6400 Sweep and tower climber to optimize Ant /line for repack channel. 6400 plus 3000.
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**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
Progress Reporting	Prepare and file 10 required progress reports on FCC Form 2100, Schedule 387 on a quarterly basis with the FCC.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	No
	Does this relocation require MVPD Notification of a Channel Change?	Yes



<b>Other Expenses</b>	<b>Other Expenses Not Listed</b> Information not provided.
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## Cost Information

### Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter MPTV-PRLX-U4	\$428,007.78	\$423,667.78		\$404,872.78	
Rigid Coax Line	<i>\$2,600.00</i>	\$2,600.00	Rigid interconnection coax lines from transmitter to filter to antenna switch.	\$2,600.00	N/A
Remote Control Interface	<i>\$2,205.00</i>	\$2,205.00	License required to interface transmitter into current remote control system	\$0.00	N/A
Coolant	<i>\$1,000.00</i>	\$1,000.00	The coolant used for the transmitter heat exchanger is not included in the transmitter price	\$0.00	N/A

Motorized Switch	<b>\$18,110.00</b>	\$18,110.00	Electric actuated switch to switch main /auxiliary transmitters into antenna. Current transmitter has this capability but switch cannot be moved as it is in pre-repack service.	\$18,110.00	N/A
Site Design and Survey	<b>\$17,673.10</b>	\$17,673.10	see Estimated Cost Justification WMPB-110-1st Primary Transmitter - Transmitter Site Survey and Design v0	\$17,673.10	N/A
Bag Filter	<b>\$6,975.00</b>	\$6,975.00	Bag type water filtration for heat exchanger system. Current pre-repack cooling system has this filtering.	\$6,975.00	N/A

12-Pole Mask Filter	<b>\$91,463.00</b>	\$91,463.00	Sharp tuned mask filter to further protect adjacent channel Class A WMJF-CD, Ch. 23 and WMPT, Ch 21. Part of a multi-party resolution provided to the FCC to accommodate moving WETA to channel 31 .	\$91,463.00	N/A
Other Electrical Service: Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor.	<b>\$14,200.00</b>	\$14,200.00	Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. See attached electrical quote	\$3,190.00	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$269,160.00	see Estimated Cost Justification WMPB-110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 4.9-6.5 kW v0	\$264,580.00	N/A

Primary Transmitter Installation	<b>\$281.68</b>	\$281.68	WMPB Blue Mountain Delivery Invoice #20813 Budget Revision Justification Letter	\$281.68	N/A
<b>Auxiliary Transmitter MPTV-PRLX-U4</b>	<b>\$316,905.00</b>	<b>\$281,415.00</b>		<b>\$249,419.50</b>	
Rigid Coax Line	<b>\$2,600.00</b>	\$2,600.00	Rigid interconnection coax lines from transmitter to filter to antenna switch.	\$2,470.00	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$238,010.00	See Estimated Cost Justification WMPB-150-1st Auxiliary Transmitter - UHF Liquid Cooled Solid State, 4.9-6.5 kW v0. Current transmitter is not supported for a channel change. See attached Transmitter Replace justification letter from manufacturer.	\$229,742.00	N/A
Coolant	<b>\$1,000.00</b>	\$1,000.00	The coolant used for the transmitter heat exchanger is not included in the transmitter price	\$0.00	N/A

Remote Control Interface	<b>\$2,205.00</b>	\$2,205.00	License required to interface transmitter into current remote control system	\$0.00	N/A
Motorized Switch	<b>\$16,425.00</b>	\$16,425.00	Switches which transmitter will feed the mask filter. This is not an upgrade as station uses a motorized switch. Current switch can't be utilized and have station remain on-air.	\$7,391.25	N/A
Other Electrical Service: Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor.	<b>\$14,200.00</b>	\$14,200.00	Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. See attached electrical quote	\$3,190.00	N/A
Bag Filter	<b>\$6,975.00</b>	\$6,975.00	N/A	\$6,626.25	N/A
<b>Sub-total</b>	\$744,912.78	\$705,082.78	N/A	\$654,292.28	N/A
<b>Total for all systems</b>	\$905,392.78	\$859,102.78	N/A	\$700,753.73	N/A

## Components

Actual Information	
Description	File Name
Rigid Coax Line	
	<b>Component Description:</b> WMPB-110-1st Primary Transmitter - Rigid Coax Line
	<b>Amount:</b> \$130.00
	<b>Component Description:</b> WMPB-110-1st Primary Transmitter - Rigid Coax Line
	<b>Amount:</b> \$1,170.00
	<b>Component Description:</b> 20' coax sections primary line 2.4 on main 50 % deposit
	<b>Amount:</b> \$1,300.00
Remote Control Interface	Information not provided.
Coolant	Information not provided.

Motorized Switch	<b>Component Description:</b>		WMPB-110-1st Primary Transmitter - Motorized Coaxial Switch
	<b>Amount:</b>		\$8,149.50
	<b>Component Description:</b>		WMPB-110-1st Primary Transmitter - Motorized Coaxial Switch
	<b>Amount:</b>		\$905.50
	<b>Component Description:</b>		Motorized switch for main. 50% deposit. line 2.6
	<b>Amount:</b>		\$9,055.00
Site Design and Survey	<b>Component Description:</b>		SYS-DES-SS- PARLX-UL
	<b>Amount:</b>		\$15,300.00
	<b>Component Description:</b>		Sweep of antenna system WMPB Baltimore
	<b>Amount:</b>		\$2,373.10



Bag Filter	<table> <tr> <td data-bbox="719 174 1027 208"><b>Component Description:</b></td><td data-bbox="1161 174 1366 322">WMPB-110-1st Primary Transmitter - Bag Filter</td></tr> <tr> <td data-bbox="719 338 831 365"><b>Amount:</b></td><td data-bbox="1161 338 1278 365">\$3,138.75</td></tr> <tr> <td data-bbox="719 477 1027 510"><b>Component Description:</b></td><td data-bbox="1161 477 1366 624">WMPB-110-1st Primary Transmitter - Bag Filter</td></tr> <tr> <td data-bbox="719 640 831 667"><b>Amount:</b></td><td data-bbox="1161 640 1257 667">\$348.75</td></tr> <tr> <td data-bbox="719 779 1027 813"><b>Component Description:</b></td><td data-bbox="1161 779 1366 927">bag filter for Main xmtr. 50 % deposit upon ordering. line 2.3</td></tr> <tr> <td data-bbox="719 943 831 969"><b>Amount:</b></td><td data-bbox="1161 943 1278 969">\$3,487.50</td></tr> </table>	<b>Component Description:</b>	WMPB-110-1st Primary Transmitter - Bag Filter	<b>Amount:</b>	\$3,138.75	<b>Component Description:</b>	WMPB-110-1st Primary Transmitter - Bag Filter	<b>Amount:</b>	\$348.75	<b>Component Description:</b>	bag filter for Main xmtr. 50 % deposit upon ordering. line 2.3	<b>Amount:</b>	\$3,487.50
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<b>Amount:</b>	\$3,487.50												
12-Pole Mask Filter	<table> <tr> <td data-bbox="719 1108 1027 1142"><b>Component Description:</b></td><td data-bbox="1161 1108 1350 1256">WMPB-110-1st Primary Transmitter - 12 Pole Mask Filter</td></tr> <tr> <td data-bbox="719 1272 831 1299"><b>Amount:</b></td><td data-bbox="1161 1272 1294 1299">\$41,158.35</td></tr> <tr> <td data-bbox="719 1411 1027 1444"><b>Component Description:</b></td><td data-bbox="1161 1411 1350 1559">WMPB-110-1st Primary Transmitter - 12 Pole Mask Filter</td></tr> <tr> <td data-bbox="719 1574 831 1601"><b>Amount:</b></td><td data-bbox="1161 1574 1278 1601">\$4,573.15</td></tr> <tr> <td data-bbox="719 1713 1027 1747"><b>Component Description:</b></td><td data-bbox="1161 1713 1366 1816">12 pole design. Item 2.5 on quote 50% deposit</td></tr> <tr> <td data-bbox="719 1832 831 1859"><b>Amount:</b></td><td data-bbox="1161 1832 1294 1859">\$45,731.50</td></tr> </table>	<b>Component Description:</b>	WMPB-110-1st Primary Transmitter - 12 Pole Mask Filter	<b>Amount:</b>	\$41,158.35	<b>Component Description:</b>	WMPB-110-1st Primary Transmitter - 12 Pole Mask Filter	<b>Amount:</b>	\$4,573.15	<b>Component Description:</b>	12 pole design. Item 2.5 on quote 50% deposit	<b>Amount:</b>	\$45,731.50
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<b>Component Description:</b>	WMPB-110-1st Primary Transmitter - 12 Pole Mask Filter												
<b>Amount:</b>	\$4,573.15												
<b>Component Description:</b>	12 pole design. Item 2.5 on quote 50% deposit												
<b>Amount:</b>	\$45,731.50												

<p>Other Electrical Service: Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor.</p>	<table> <tr> <td data-bbox="715 174 1027 210"><b>Component Description:</b></td><td data-bbox="1161 174 1374 286">Proposal: 2019-71 Completion of Transmitter #1</td></tr> <tr> <td data-bbox="715 297 831 333"><b>Amount:</b></td><td data-bbox="1161 297 1278 333">\$3,190.00</td></tr> </table>	<b>Component Description:</b>	Proposal: 2019-71 Completion of Transmitter #1	<b>Amount:</b>	\$3,190.00								
<b>Component Description:</b>	Proposal: 2019-71 Completion of Transmitter #1												
<b>Amount:</b>	\$3,190.00												
<p>UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW</p>	<table> <tr> <td data-bbox="715 488 1027 524"><b>Component Description:</b></td><td data-bbox="1161 488 1366 560">SYSTEM, WMPB PRLX U4</td></tr> <tr> <td data-bbox="715 571 831 607"><b>Amount:</b></td><td data-bbox="1161 571 1310 607">\$121,122.00</td></tr> <tr> <td data-bbox="715 712 1027 748"><b>Component Description:</b></td><td data-bbox="1161 712 1347 784">System, WMPB PRLX U4</td></tr> <tr> <td data-bbox="715 795 831 831"><b>Amount:</b></td><td data-bbox="1161 795 1294 831">\$13,458.00</td></tr> <tr> <td data-bbox="715 936 1027 972"><b>Component Description:</b></td><td data-bbox="1161 936 1378 1196">50% deposit for Lines 1,2 and 3 on invoice. 11447. System components with installation and check out &amp; proof</td></tr> <tr> <td data-bbox="715 1207 831 1243"><b>Amount:</b></td><td data-bbox="1161 1207 1310 1243">\$130,000.00</td></tr> </table>	<b>Component Description:</b>	SYSTEM, WMPB PRLX U4	<b>Amount:</b>	\$121,122.00	<b>Component Description:</b>	System, WMPB PRLX U4	<b>Amount:</b>	\$13,458.00	<b>Component Description:</b>	50% deposit for Lines 1,2 and 3 on invoice. 11447. System components with installation and check out & proof	<b>Amount:</b>	\$130,000.00
<b>Component Description:</b>	SYSTEM, WMPB PRLX U4												
<b>Amount:</b>	\$121,122.00												
<b>Component Description:</b>	System, WMPB PRLX U4												
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<b>Component Description:</b>	50% deposit for Lines 1,2 and 3 on invoice. 11447. System components with installation and check out & proof												
<b>Amount:</b>	\$130,000.00												
<p>Primary Transmitter Installation</p>	<table> <tr> <td data-bbox="715 1377 1027 1413"><b>Component Description:</b></td><td data-bbox="1161 1377 1342 1529">5 Gallons DISTILLED- please note the current price</td></tr> <tr> <td data-bbox="715 1541 831 1576"><b>Amount:</b></td><td data-bbox="1161 1541 1257 1576">\$281.68</td></tr> </table>	<b>Component Description:</b>	5 Gallons DISTILLED- please note the current price	<b>Amount:</b>	\$281.68								
<b>Component Description:</b>	5 Gallons DISTILLED- please note the current price												
<b>Amount:</b>	\$281.68												

Rigid Coax Line	<b>Component Description:</b>	WMPB-150-1st Auxiliary Transmitter - Rigid Coax Line
	<b>Amount:</b>	\$1,170.00
	<b>Component Description:</b>	20' coax section for auxiliary line 2.4 on quote 50% deposit
	<b>Amount:</b>	\$1,300.00
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<b>Component Description:</b>	SYSTEM, WMPB PRLX U4 D22
	<b>Amount:</b>	\$107,104.50
	<b>Component Description:</b>	Motorized Switch line 2.5 on quote. 50% deposit
	<b>Amount:</b>	\$8,212.50
	<b>Component Description:</b>	lines 1-1.17 on quote. for auxiliary unit. 50% deposit
	<b>Amount:</b>	\$114,425.00
Coolant	Information not provided.	
Remote Control Interface	Information not provided.	
Motorized Switch	<b>Component Description:</b>	WMPB-150-1st Auxiliary Transmitter - Motorized Coaxial Switch
	<b>Amount:</b>	\$7,391.25

<p>Other Electrical Service: Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor.</p>	<table> <tr> <td data-bbox="711 109 1114 248"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 109 1428 248"> <p>Proposal: 2019-71</p> <p>\$3,190.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Proposal: 2019-71</p> <p>\$3,190.00</p>		
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Proposal: 2019-71</p> <p>\$3,190.00</p>				
<p>Bag Filter</p>	<table> <tr> <td data-bbox="711 416 1114 685"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 416 1428 685"> <p>WMPB-150-1st Auxiliary Transmitter - Bag Filter</p> <p>\$3,138.75</p> </td></tr> <tr> <td data-bbox="711 685 1114 1037"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 685 1428 1037"> <p>line 2.3 on quote for auxiliary unit bag filter 50% deposit</p> <p>\$3,487.50</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>WMPB-150-1st Auxiliary Transmitter - Bag Filter</p> <p>\$3,138.75</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>line 2.3 on quote for auxiliary unit bag filter 50% deposit</p> <p>\$3,487.50</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>WMPB-150-1st Auxiliary Transmitter - Bag Filter</p> <p>\$3,138.75</p>				
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>line 2.3 on quote for auxiliary unit bag filter 50% deposit</p> <p>\$3,487.50</p>				

**Cost Information**      **Antennas**  
Information not provided.

**Cost Information**      **Transmission Line**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$450.00	\$450.00		\$450.00	
Primary Transmission Line - Tune Elbows	<i>\$450.00</i>	\$450.00	Please see WMPB Transmission Line - Tune Elbows Budget Justification Cover Letter	\$450.00	N/A
Sub-total	\$450.00	\$450.00	N/A	\$450.00	N/A
Total for all systems	\$905,392.78	\$859,102.78	N/A	\$700,753.73	N/A

**Components**

Actual Information	
Description	File Name
Primary Transmission Line - Tune Elbows	<div><div>Component Description:</div><div>Tune elbows in the TV transmission line as part of the TV Re-Pack</div><div>Amount:</div><div>\$450.00</div></div>

Cost Information

Tower Equipment and Rigging Costs

Information not provided.

Cost Information

Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$108,960.00	\$107,050.00		\$31,901.45	
Project management of the transition	\$31,600.00	\$30,000.00	N/A	\$27,473.20	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$285.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$0.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A
Progress Reporting	<b>\$35,000.00</b>	\$35,000.00	Prepare and file 10 required progress reports on FCC Form 2100, Schedule 387 on a quarterly basis with the FCC.	\$551.75	N/A
Additional Field Engineering Service, 1 Days	<b>\$15,800.00</b>	\$15,800.00	Electrical sweep to evaluate suitability of antenna and line on repack channel. \$6400 Sweep and tower climber to optimize Ant /line for repack channel. \$6400 plus \$3000.	\$3,000.00	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$5,000.00	Fees related to multi-party resolution agreement with Maryland Public TV, WETA and HME Equity Fund II, LLC. Involved several stations moving channels to accommodate WETA moving from ch 14 to 31.	\$423.50	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$168.00	N/A
<b>Sub-total</b>	\$108,960.00	\$107,050.00	N/A	\$31,901.45	N/A
<b>Total for all systems</b>	\$905,392.78	\$859,102.78	N/A	\$700,753.73	N/A

## Components

Actual Information	
Description	File Name
Project management of the transition	<div> <div>Component Description:</div> <div>Project Management</div> </div> <div> <div>Amount:</div> <div>\$2,162.85</div> </div> <div> <div>Component Description:</div> <div>Project Management</div> </div> <div> <div>Amount:</div> <div>\$1,892.40</div> </div>



<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$66.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,267.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,416.60

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$5,990.35

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$146.10

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,765.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$162.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$763.05

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,388.00

	<b>Component Description:</b> <b>Amount:</b>	Project Management \$1,466.55
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,704.60
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,280.15
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b> <b>Amount:</b>	Legal fees for filing form 399/2100 Page 7 of invoice \$285.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

Progress Reporting	<div data-bbox="708 174 1374 327"> <p><b>Component Description:</b> Legal fees associated with the repacking project</p> <p><b>Amount:</b> \$104.50</p> </div> <div data-bbox="708 434 1374 586"> <p><b>Component Description:</b> Additional items for other locations and other MPT issues.</p> <p><b>Amount:</b> \$89.25</p> </div> <div data-bbox="708 694 1374 846"> <p><b>Component Description:</b> Legal fees associated with the repacking project</p> <p><b>Amount:</b> \$79.50</p> </div> <div data-bbox="708 954 1374 1187"> <p><b>Component Description:</b> Legal Fees associated with Progress Reporting for Repacking Project</p> <p><b>Amount:</b> \$31.50</p> </div> <div data-bbox="708 1294 1374 1447"> <p><b>Component Description:</b> Progress Reporting for Repacking Project for WMPB</p> <p><b>Amount:</b> \$142.50</p> </div> <div data-bbox="708 1554 1374 1706"> <p><b>Component Description:</b> Legal fees associated with the Repacking Project</p> <p><b>Amount:</b> \$104.50</p> </div>
Additional Field Engineering Service, 1 Days	<div data-bbox="708 1839 1366 1993"> <p><b>Component Description:</b> sweep of existing antenna system at WMPB</p> <p><b>Amount:</b> \$3,000.00</p> </div>

Attorney Fees - Negotiation of lease and other matters for shared locations	<div> <b>Component Description:</b> reimbursement for just the owings mill location WMPB.         </div> <div> <b>Amount:</b> \$126.00         </div>
	<div> <b>Component Description:</b> Check status of transition for WMPB         </div> <div> <b>Amount:</b> \$170.00         </div>
	<div> <b>Component Description:</b> Professional Services         </div> <div> <b>Amount:</b> \$42.50         </div>
	<div> <b>Component Description:</b> Professional Services         </div> <div> <b>Amount:</b> \$85.00         </div>
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<div> <b>Component Description:</b> Legal fees associated with the repacking project         </div> <div> <b>Amount:</b> \$168.00         </div>

## Cost Information

### Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$51,070.00</b>	<b>\$46,520.00</b>		<b>\$14,110.00</b>	
MVPD Notification of Channel Change	<i>\$1,200.00</i>	\$1,200.00	see Estimated Cost Justification WMPB-610-MVPD Notifications v0	\$1,200.00	N/A
Equipment Delivery and Handling Charges	<i>\$18,320.00</i>	\$18,320.00	Transmitter shipping and offloading. See transmitter quote options.	\$9,160.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$20,000.00</i>	\$20,000.00	Applicant will be required to dispose of the current transmission line and transmitter and heavy oil filled high voltage power supplies. These cannot be disposed of in a typical landfill.	\$0.00	N/A

DTV Medical Facility Notification	\$11,550.00	\$7,000.00	N/A	\$3,750.00	N/A
<b>Sub-total</b>	\$51,070.00	\$46,520.00	N/A	\$14,110.00	N/A
<b>Total for all systems</b>	\$905,392.78	\$859,102.78	N/A	\$700,753.73	N/A

## Components

Actual Information	
Description	File Name
MVPD Notification of Channel Change	<p><b>Component Description:</b> MVPD Notifications</p> <p><b>Amount:</b> \$1,200.00</p>
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> line 2.2 on auxiliary offloading 50% deposit</p> <p><b>Amount:</b> \$2,250.00</p> <p><b>Component Description:</b> Transmitter system transportation. 50% deposit</p> <p><b>Amount:</b> \$2,330.00</p> <p><b>Component Description:</b> line 2.1 auxiliary transmitter system transporation 50 % deposit</p> <p><b>Amount:</b> \$2,330.00</p> <p><b>Component Description:</b> Offloading 50% deposit</p> <p><b>Amount:</b> \$2,250.00</p>

Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility Notification	<b>Component Description:</b>  <b>Amount:</b>	Medical Notification Mailing \$3,750.00

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$905,392.78	\$859,102.78
			\$700,753.73

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	The facility has ceased operating on its pre-auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No



Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Carl R Wolfe**  
*Director,  
Transmission  
and  
Distribution*

08/24/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Carl R Wolfe</b>  <i>Director,  Transmission  and  Distribution</i></p> <p>08/24/2020</p>

## Attachments