Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **72338** | Service: **DTV** | Call Sign: **WHYY-TV** | Channel: **12 (High VHF)** | File Number: **0000026256** | FRN: **0004061909** | Date Submitted: **06/17/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WHYY, INC.	KYRA G. MCGRATH 150 N 6TH STREET PHILADELPHIA, PA 19106 United States	+1 (215) 351-1200	kmcgrath@whyy.org	Not-for-Profit

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
Robert Gehman *ConsultingEngineer* *Kessler and Gehman Associates, Inc.*	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	bob@kesslerandgehman.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	Replace transmitter and antenna using existing line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required.

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	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
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DTT3M
	Year	2010
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	3.5 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?	No
	Manufacturer	
	Model	VAXTE-6R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	4.8 kW
	Justification for New Transmitter	The manufacturer of the existing transmitter is out of business and no factory support is available for the existing transmitter. See attachment.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA

	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	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
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line
RF Switch and Station Load	RF Switch and Station Load
Electrical	Electrical
Freight	Freight
Mask Filter System	Mask Filter System
Install and Proof	Install and Proof
Exhaust System	Exhaust System

Removal of old transmitter	Removal of old transmitter
Change Order	Change Order
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	30.0 kW
	Manufacturer	

Model	PSIVSM12DMC-12
Year	2010

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	30.0 kW
	Manufacturer	
	Model	PSIVSM12DMC-13
	Year	2018

	Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	3 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna	**Other Antenna Cost Not Listed** Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	30.0 kW
	Manufacturer	
	Model	PSILVLP8DMC-12/13
	Year	2018

	Justification for New Antenna	An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	3 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

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	Unknown
	Type	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1240 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Tests	Sweep to verify performance on assigned channel

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	1140 feet per run

Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1027110
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 02' 30.9" N-
	Longitude (NAD83)	075° 14' 21.9" W-
	Overall Structure Height	1091.85 feet
	Support Structure Height	1022.95 feet
	Ground Elevation Above Mean Sea Level (AMSL)	219.81 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	04/11/2008

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
28628	WIP-FM	FM
25094	WMGK	FM
22308	WBEN-FM	FM
72336	WHYY-FM	FM
73879	WPHL-TV	DTV
71316	WDAS-FM	FM
71382	WBEB	FM
53969	WRFF	FM

Other Types of Users

Users
WPHL STL
WIP STL
WRFF STL

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	262
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
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	Yes

	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	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	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes

Number of Days	20
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Engineering Services	Engineering Services not included in predetermined categories
Other Legal Services	Other Legal Services related to the DTV Repack

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
Facility Expenses	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
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	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?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
American Tower Temporary Site License	American Tower Temporary Site License
Bank Fees	WHYY, Inc. has insufficient cash/liquidity to pay for eligible project expenditures out of pocket. We will need to borrow from the bank to cover the expenditures pending reimbursement from the FCC. This represents the total bank fee.
Interest	WHYY, Inc. has insufficient cash/liquidity to pay for eligible project expenditures out of pocket. We will need to borrow from the bank to cover the expenditures pending reimbursement from the FCC. This represents the interest expense for the loan.
Other Transaction Fees	Refer to attachment Repack Financing Costs WHYY & WDPB 12.7.17.pdf
WHYY Legal Fee	WHYY, Inc. has insufficient cash/liquidity to pay eligible expenses out of pocket. We will need to borrow from the bank to cover the expenditures pending FCC reimbursement. This is for legal fees associated with the loan application and administration.

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 VAXTE-6R37	**$344,033.93**	**$340,583.93**		**$168,233.93**	
Standby Exciter and Switch	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Change Order	***$4,211.57***	$4,211.57	See attached / uploaded PDF file titled "Gates US0334375 v200421jgv1.pdf"	$4,211.57	N/A
Removal of old transmitter	***$1,755.00***	$1,755.00	See attached /uploaded PDF file titled "JDog Junk 3826 v200406jgv1.pdf"	$1,755.00	N/A
Exhaust System	***$13,700.00***	$13,700.00	See attached / uploaded PDF file titled "Temptrol Corp 5033 v200501jgv1.pdf"	$6,850.00	N/A
Install and Proof	***$16,207.00***	$16,207.00	See attached / uploaded PDF file titled "Gates JW30004691-1 v200420jgv1.pdf"	$16,207.00	N/A

Mask Filter System	***$12,644.87***	$12,644.87	See attached / uploaded PDF file titled "Gates JW30004691-1 v200420jgv1.pdf"	$12,644.87	N/A
Freight	***$4,327.52***	$4,327.52	See attached / uploaded PDF file titled "Gates US0334375 v200421jgv1.pdf"	$4,327.52	N/A
Electrical	***$1,510.82***	$1,510.82	See attached / uploaded PDF file titled "Gates JW30004691-1 v200420jgv1.pdf"	$1,510.82	The Estimated Cost and Actual Cost are both $1,510.82 Apparently this form is not adding figures correctly.
RF Switch and Station Load	***$16,319.60***	$16,319.60	See attached / uploaded PDF file titled "Gates JW30004691-1 v200420jgv1.pdf"	$16,319.60	N/A
Additional Interior RF System	***$75,000.00***	$75,000.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	$5,200.00	$4,900.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A

High VHF - Air Cooled Solid State Transmitter 4.8 kW	***$104,407.55***	$104,407.55	See attached / uploaded PDF file titled "Gates JW30004691-1 v200420jgv1.pdf"	$104,407.55	The Estimated Cost and Actual Cost are both $104,407.55 Apparently this form is not adding figures correctly.
Transformer 3 phase /480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
Sub-total	$344,033.93	$340,583.93	N/A	$168,233.93	N/A
Total for all systems	$1,719,424.93	$2,424,238.69	N/A	$1,061,660.39	N/A

Components

Actual Information Description	**File Name**	
Standby Exciter and Switch	Information not provided.	
Change Order	**Component Description:** **Amount:**	Gates US0334375 v200421jgv1 $4,211.57
Removal of old transmitter	**Component Description:** **Amount:**	JDog Junk 3826 v200406jgv1 $1,755.00
Exhaust System	**Component Description:** **Amount:**	Temptrol 5033 v200501jgv1 $6,850.00

Install and Proof	**Component Description:** **Amount:**	Gates JW30004691-2 v200420jgv1 $5,402.33
	Component Description: **Amount:**	Gates US0334375 v200421jgv1 $5,402.34
	Component Description: **Amount:**	Gates JW30004691-1 v200420jgv1 $5,402.33
Mask Filter System	**Component Description:** **Amount:**	Gates JW30004691-2 v200420jgv1 $4,214.95
	Component Description: **Amount:**	Gates JW30004691-1 v200420jgv1 $4,214.95
	Component Description: **Amount:**	Gates US0334375 v200421jgv1 $4,214.97
Freight	**Component Description:** **Amount:**	Gates US0334375 v200421jgv1 $4,327.52

Electrical	**Component Description:** Gates JW30004691-1 v200420jgv1 **Amount:** $503.60 **Component Description:** Gates JW30004691-2 v200420jgv1 **Amount:** $503.60 **Component Description:** Gates US0334375 v200421jgv1 **Amount:** $503.62
RF Switch and Station Load	**Component Description:** Gates JW30004691-2 v200420jgv1 **Amount:** $5,439.86 **Component Description:** Gates US0334375 v200421jgv1 **Amount:** $5,439.88 **Component Description:** Gates JW30004691-1 v200420jgv1 **Amount:** $5,439.86
Additional Interior RF System	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Switchgear - industrial 800 amp	Information not provided.

High VHF - Air Cooled Solid State Transmitter 4.8 kW	**Component Description:** **Amount:**	Gates JW30004691-1 v200420jgv1 $34,802.51
	Component Description: **Amount:**	Gates JW30004691-2 v200420jgv1 $34,802.51
	Component Description: **Amount:**	Gates US0334375 v200421jgv1 $34,802.53
Transformer 3 phase/480v - 150 KVA	Information not provided.	

Cost Information

Antennas

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 Justificatior
Interim Antenna PSILVLP8DMC-12/13	**$79,240.00**	**$77,800.00**		**$13,999.99**	
Elbow complex, single channel, at antenna input, per 3 1 /8. feedline (if needed)	$7,600.00	$7,400.00	N/A	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station horizontally polarized	***$36,500.00***	$36,500.00	See attached / uploaded PDF file titled "PSI 2115DP v200403jgv1. pdf"	$12,166.66	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,500.00	See attached / uploaded PDF file titled "PSI 2115DP v200403jgv1. pdf"	$1,833.33	N/A

Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	N/A	N/A
Primary Antenna PSIVSM12DMC-13	**$148,740.00**	**$147,300.00**		**$37,166.66**	
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 3 1 /8. feedline (if needed)	$7,600.00	$7,400.00	N/A	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station horizontally polarized	***$106,000.00***	$106,000.00	See attached / uploaded PDF file titled "PSI 2114DP v200403jgv1. pdf"	$35,333.33	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,500.00	See attached / uploaded PDF file titled "PSI 2114DP v200403jgv1. pdf"	$1,833.33	N/A

Sub-total	$227,980.00	$225,100.00	N/A	$51,166.65	N/A
Total for all systems	$1,719,424.93	$2,424,238.69	N/A	$1,061,660.39	N/A

Components

Actual Information Description	File Name	
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	
High VHF - High Power Side Mount One Station horizontally polarized	**Component Description:** **Amount:**	PSI 2115DP v200403jgv1 $12,166.66
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	PSI 2115DP v200403jgv1 $1,833.33
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	

High VHF - High Power Side Mount One Station horizontally polarized	**Component Description:** **Amount:**	PSI 2114DP v200403jgv1 $35,333.33
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	PSI 2114DP v200403jgv1 $1,833.33

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
Interim Transmission Line	**$67,260.00**	**$63,840.00**		**$0.00**	
Flexible Air Transmission Line - dielectric, 3"	$67,260.00	$63,840.00	N/A	N/A	N/A
Primary Transmission Line	**$6,400.00**	**$6,400.00**		**$0.00**	
Sweep Tests	***$6,400.00***	$6,400.00	N/A	N/A	N/A
Sub-total	$73,660.00	$70,240.00	N/A	$0.00	N/A
Total for all systems	$1,719,424.93	$2,424,238.69	N/A	$1,061,660.39	N/A

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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 Tower GTOWER	**$657,800.00**	**$1,381,579.76**		**$774,259.83**	
Tall Tower (greater than 500')	$210,500.00	$200,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	$421,000.00	$1,154,759.76	See attached / uploaded PDF file titled "Train 17768 v200101jgv1.pdf"	$747,439.83	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$26,820.00	Costs provided by tower owner American Tower	$26,820.00	N/A
Sub-total	$657,800.00	$1,381,579.76	N/A	$774,259.83	N/A
Total for all systems	$1,719,424.93	$2,424,238.69	N/A	$1,061,660.39	N/A

Components

Actual Information Description	File Name
Tall Tower (greater than 500')	Information not provided.

Major tower reinforcement /modifications	**Component Description:** **Amount:**	Train 17768 v200101jgv1 $547,439.83
	Component Description: **Amount:**	Train 17811 v200402jgv1 $200,000.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:** **Amount:**	Amer Twr 460222426 v200406jgv1 $16,345.00
	Component Description: **Amount:**	Amer Twr 460222425 v200406jgv1 $10,475.00

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 Cos Justificatic
Outside Professional Services	**$225,830.00**	**$218,604.00**		**$26,764.50**	
Other Legal Services	***$54.00***	$54.00	Other Legal Services related to the DTV Repack	$54.00	N/A
Additional Field Engineering Service, 20 Days	***$20,000.00***	$20,000.00	moved 20,000 - half of original funds - into new category Other Engineering Services 1-15-19	N/A	N/A
RF Exposure Measurements	$21,050.00	$15,000.00	Cost provided by tower owner American Tower	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$2,000.00	N/A	N/A	N/A

ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	$41.25	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$634.50	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$2,310.00	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$660.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	$0.00	N/A
Prepare and or review reimbursement form	$2,630.00	$10,000.00	The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and Actual Cost invoice prep and submission by KGA.	$7,094.25	The stati require additiona legal advi related t reimburser of financi costs rela to the repa for WHY
Project management of the transition	$41,396.00	$39,300.00	Includes hours for tower owner American Tower	$2,365.50	N/A
Other Engineering Services	***$20,000.00***	$20,000.00	created new category 1-15-19	$13,605.00	N/A
Sub-total	$225,830.00	$218,604.00	N/A	$26,764.50	N/A

Total for all systems	$1,719,424.93	$2,424,238.69	N/A	$1,061,660.39	N/A

Components

Actual Information Description	File Name
Other Legal Services	**Component Description:** GSB 723063 v200415jgv1 **Amount:** $54.00
Additional Field Engineering Service, 20 Days	Information not provided.
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	**Component Description:** L Will 2020-02088 v200519jgv2 **Amount:** $41.25
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Legal preparation, review and filing of CP application for Main facility for WHYY $634.50
	Component Description: **Amount:**	Legal preparation, review and filing of construction permit application of main facility for WHYY $117.00
	Component Description: **Amount:**	Legal preparation, review and filing of CP application for WHYY $331.50
Prepare request for Special Temporary Authorization	Information not provided.	
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	**Component Description:** **Amount:**	L Will 2019-02064 v190523jgv1 $990.00
	Component Description: **Amount:**	Prepare engineering section of FCC 2100 (main) Construction Permit Application for WHYY $1,320.00

Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Perform engineering study for new channel assignment and antenna development for WHYY $660.00
Address transition timing and coordination issues w/ other stations and wireless	**Component Description:** **Amount:**	Address transition timing and coordination issues w/ other stations and wireless providers $58.50
Prepare and or review reimbursement form	**Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:**	KGA 952-60 v200402jgv1 $1,375.00 KGA 952-38 v200415jgv1 $50.00 KGA 952-37 v191206jgv1 $665.00 KGA 952-52 v200402jgv1 $175.00 KGA 952-54 v200402jgv1 $350.00

Component Description:	Legal review of Schedule 399 for reimbursement budget for WHYY
Amount:	$250.50
Component Description:	Legal review and advice related to Sched 399 reimbursement form WHYY
Amount:	$540.00
Component Description:	KGA 952-47 v200402jgv1
Amount:	$725.00
Component Description:	Legal review of Sched 399 for reimbursement budget for WHYY
Amount:	$136.50
Component Description:	KGA 952-19 v191206jgv1
Amount:	$463.75
Component Description:	Review of Sched 399 for reimbursement budget equally split between WHYY and WDPB
Amount:	$253.50
Component Description:	Prepare reimbursement form 399 for WHYY
Amount:	$2,500.00

Project management of the transition	**Component Description:**	KGA 952-21 v191206jgv1
	Amount:	$150.00
	Component Description:	KGA 952-48 v200402jgv1
	Amount:	$150.00
	Component Description:	KGA 952-40 v200415jgv1
	Amount:	$150.00
	Component Description:	KGA 952-27 v191206jgv1
	Amount:	$150.00
	Component Description:	Legal review of Schedule 387 3Q2017 for WHYY
	Amount:	$39.00
	Component Description:	Atty review of Form 387 progress report WHYY
	Amount:	$367.50
	Component Description:	Preparation of 399 amendment and and submission of actual cost invoices for WHYY
	Amount:	$570.00
	Component Description:	Quarterly progress report WHYY
	Amount:	$225.00

	Component Description:	Prepare and file Form 387 for 3Q2017 WHYY
	Amount:	$300.00
	Component Description:	Atty review of form 387 progress report WHYY
	Amount:	$39.00
	Component Description:	Prepare form 387 progress report WHYY
	Amount:	$225.00
Other Engineering Services		
	Component Description:	KGA 952-55 v200402jgv1
	Amount:	$225.00
	Component Description:	KGA 952-45 v200402jgv1
	Amount:	$3,550.00
	Component Description:	KGA 952-56 v200402jgv1
	Amount:	$1,425.00
	Component Description:	L Will 2019-02075 v200617jgv2
	Amount:	$330.00
	Component Description:	L Will 2019-02070 v200617jgv2
	Amount:	$82.50

Component Description:	KGA 952-13 v190523pmv2
Amount:	$150.00
Component Description:	KGA 952-49 v200402jgv1
Amount:	$925.00
Component Description:	KGA 952-14 v190523pmv2
Amount:	$150.00
Component Description:	KGA 952-36 v191206jgv1
Amount:	$3,025.00
Component Description:	KGA 952-43 v200415jgv1
Amount:	$1,850.00
Component Description:	Processing Actual Cost Invoices
Amount:	$1,562.50
Component Description:	L Will 2019-02083 v200417jgv1
Amount:	$330.00
Component Description:	L Will 2019-02063 v191206jgv1
Amount:	$3,217.50

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
Other Expenses	**$190,121.00**	**$188,131.00**		**$41,235.48**	
WHYY Legal Fee	***$3,500.00***	$3,500.00	Amended 12-19-17 Refer to attachment Repack Financing Costs WHYY & WDPB 12.7.17.pdf	$2,821.98	N/A
Other Transaction Fees	***$6,300.00***	$6,300.00	Amended 12-19-17 Bank Fees, Other Transaction Fees Refer to attachment Repack Financing Costs WHYY & WDPB 12.7.17.pdf	$13.50	N/A

Bank Fees	***$10,000.00***	$10,000.00	Amended 12-19-17 Bank Fees, Transaction Fee $4,000 & Legal Fee $6,000. Refer to attachment Repack Financing Costs WHYY & WDPB 12.7.17.pdf	N/A	N/A
American Tower Temporary Site License	***$38,400.00***	$38,400.00	See attached /uploaded PDF file titled "Amer Twr 406783458 v191210jgv1.pdf"	$38,400.00	N/A
MVPD Notification of Channel Change	***$2,000.00***	$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$0.00***	$0.00	N/A	N/A	N/A
Equipment Storage	***$10,000.00***	$10,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Impact study	$7,890.00	$7,500.00	N/A	N/A	N/A

Interest	***$19,281.00***	$19,281.00	Amended 12-19-17 Refer to attachment Repack Financing Costs WHYY & WDPB 12.7.17.pdf	$0.00	N/A
Equipment Delivery and Handling Charges	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Non-zoning permits	***$10,150.00***	$10,150.00	Costs provided by tower owner American Tower	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Remedy	$21,050.00	$20,000.00	N/A	N/A	N/A
Sub-total	$190,121.00	$188,131.00	N/A	$41,235.48	N/A
Total for all systems	$1,719,424.93	$2,424,238.69	N/A	$1,061,660.39	N/A

Components

Actual Information Description	File Name

WHYY Legal Fee	**Component Description:** **Amount:**	50 percent share of Legal Fees for line of credit $1,410.99
	Component Description: **Amount:**	50 percent share of Legal fees for line of credit $1,410.99
Other Transaction Fees	**Component Description:** **Amount:**	Courier services in connection with establishing a line of credit WHYY $13.50
	Component Description: **Amount:**	Band Debit for loan commitment fee for line of credit $4,000.00
Bank Fees	Information not provided.	
American Tower Temporary Site License	**Component Description:** **Amount:**	Amer Twr 406783458 v191210jgv1 $38,400.00
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
AM Pattern Disturbance -- Impact study	Information not provided.	
Interest	Information not provided.	

Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
DTV Medical Facility Notification	Information not provided.
AM Pattern Disturbance -- Remedy	Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$1,719,424.93	$2,424,238.69	$1,061,660.39

Reimbursement Status

Question	Response
The facility has ceased operating on its pre-auction channel.	No
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	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.	
	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. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 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.	

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.	**Jeffrey C Gehman** *Engineering Associate* 06/17/2020

Attachments