

Federal Communications Commission

(REFER	ENCE CO	PY - Not fo	or subm	ission)
FCC	Form	399:		

# **Reimbursement Request**

Facility ID:	72338	Service: DTV	Call Sign:	<b>WHYY-TV</b>	Channel:
12 (High	VHF)	File C	000026256		
		Number:			
FRN: 0004	061909	Date	05/19		
		Submitted:	/2020		

# Applicant Name, Type, and Contact Information

### 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Preparer Contact Name and Information

Contact 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	Question	Response
Information and Transition Plan	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	Existing Transmitter Information				
Fransmitter	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			
	Manufacturer and Type	Model	DTT3M		
		Year	2010		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	3.5 kW		

**Existing Transmitter Information** 

Primary	New Transmitter Costs				
Transmitter	Section New Transmitter	Question	Response		
		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	Other Transmitter Costs	
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Transmitter	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
	Туре	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	Other Transmitter Cost Not Listed		
Transmitter	Name	Description	
	Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line	
	Electrical	Electrical	
	RF Switch and Station Load	RF Switch and Station Load	
	Mask Filter System	Mask Filter System	
	Freight	Freight	
	Removal of old transmitter	Removal of old transmitter	
	Exhaust System	Exhaust System	

Change Order	Change Order
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch
Install and Proof	Install and Proof

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

#### **Existing Antenna Information**

Primary

Antenna	Section	Question	Response
	Existing Antenna	Type of change	Purchase New
	Description	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	Class	Full Power
	Manufacturer and Type	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	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	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna	Use	Primary (Main)	
	Description	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	
		Туре	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	

Primary Antenna	Other Antenna Costs			
	Section	Question	Response	
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?		
		Туре		
		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<br/>AntennaOther Antenna Cost Not ListedInformation not provided.

Interim	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna	Use	Interim	
	Description	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	
		Туре	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 of
	the air during
	primary
	antenna
	replacement
	and for the
	duration of the
	assigned
	phase. Statio
	will attempt to
	rent if renting
	available at
	time of

#### Other Antenna Costs Interim

Antenna	I

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

#### Other Antenna Cost Not Listed Interim

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Existing Transmission Line Primary Existing Transmission

sior	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	Manufacturer	Unknown
Line Manufacturer ar Type		Туре	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 Other Transmission Line Expenses Not Listed

Transmissior	Name	Description
	Sweep Tests	Sweep to verify performance on assigned channel

#### New Transmission Line

Interim Transmission

on Line Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	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

Other Transmission Line Expenses Not Listed Transmission

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

### **Existing Tower**

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower	Type of change	Modify Existing	
	Description	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	Do you have a tower registration number?	Yes	
	Structure Registration	ASR Number	1027110	
	Coordinates (NAD83 ( North American Datum	Latitude (NAD83)	40° 02' 30.9" N-	
	of 1983))	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 <sup>-</sup>	Туре	GTOWER - Guyed Structure Used for Communication Purposes
Tower Ow	ner	American Towers, LLC
Date Cons	structed	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
72336	WHYY-FM	FM
73879	WPHL-TV	DTV
28628	WIP-FM	FM
53969	WRFF	FM
71316	WDAS-FM	FM
71382	WBEB	FM
22308	WBEN-FM	FM
25094	WMGK	FM

#### Other Types of Users

Users	

WRFF STL

WIP STL

WPHL STL

#### **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 Rigging Costs

#### Tower

Primary Tower

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

Primary Other Tower Expenses Not Listed

**Tower** Information not provided.

Outside	Section	Question	Response
Professional	I Services Costs 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
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
Comprehensive coverage verification via field study	Yes
RF exposure measurements	Yes
Additional Field Engineering Service	Yes
	System engineering services?Critical FacilityTerrain-Shielded FacilityPrepare and file Form FCC Construction Permit ApplicationFor Auxiliary FacilityFor Main FacilityPrepare and file Form FCC License to Cover ApplicationFor Main FacilityFor Main FacilityPrepare and file Form FCC License to Cover ApplicationFor Main FacilityPrepare request for Special Temporary AuthorityQuantityNEPA Section 106 environmental reviewEnvironmental AssessmentASR ModificationFAA Consultation (including preparation of FAA Form 7460)Negotiation of Lease and other Matter for Shared LocationsPrepare or Review FCC Form 399 for ReimbursementAddress transition timing and coordination issues w/ other stations and wireless providersComprehensive coverage verification via field studyRF exposure measurements

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 Other Professional Services Expenses Not Listed

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

Other	Section	Question	Response
Expenses	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 Not Listed

Other Expenses

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.

#### Transmitters

#### Cost Information

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	
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
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
Freight	\$4,327.52	\$4,327.52	See attached / uploaded PDF file titled "Gates US0334375 v200421jgv1. pdf"	\$4,327.52	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 Cos are both \$104,407.5 Apparently this form is not adding figures correctly.
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	N/A	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
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

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.
Additional Interior RF System	\$75,000.00	\$75,000.00	N/A	N/A	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
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

Install and Proof		
	Component Description:	Gates JW30004691-2
	Amount:	v200420jgv1 \$5,402.33
	Component Description:	Gates JW30004691-1
	Amount:	v200420jgv1 \$5,402.33
	Component Description:	Gates US0334375 v200421jgv1
	Amount:	\$5,402.34
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
Freight		
	Component Description: Amount:	Gates US0334375 v200421jgv1 \$4,327.52
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:	Gates
		JW30004691-2
		v200420jgv1
	Amount:	\$34,802.51
	Component Description:	Gates JW30004691-1 v200420jgv1
	Amount:	\$34,802.51
	Component Description:	Gates US0334375 v200421jgv1
	Amount:	\$34,802.53
Standby Exciter and Switch	Information not provided.	
Mask Filter System		
	Component Description:	Gates JW30004691-2
	Amount:	v200420jgv1
	Amount.	\$4,214.95
	Component Description:	Gates JW30004691-1
		v200420jgv1
	Amount:	\$4,214.95
	Component Description:	Gates US0334375
		v200421jgv1
	Amount:	\$4,214.97

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
Electrical		
	Component Description:	Gates JW30004691-2 v200420jgv1
	Amount:	\$503.60
	Component Description:	Gates JW30004691-1 v200420jgv1
	Amount:	\$503.60
	Component Description:	Gates US0334375 v200421jgv1
	Amount:	\$503.62
Additional Interior RF System	Information not provided.	
Exhaust System	Component Description:	Tomotrol 5022
	Component Description:	Temptrol 5033 v200501jgv1
	Amount:	\$6,850.00
Transformer 3 phase/480v - 150 KVA	Information not provided.	

#### Antennas

#### Cost Information

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

Description Interim Antenna	Predetermined Cost Estimate \$79,240.00	Estimated Cost \$77,800.00	Estimated Cost Justification	Actual Cost \$13,999.99	Actual Cost Justificatior
PSILVLP8DMC- 12/13					
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	
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
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

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.	
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
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	<b>Component Description:</b>	PSI 2114DP
		v200403jgv1
	Amount:	\$35,333.33

## **Transmission Line**

#### Cost Information

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.

## **Tower Equipment and Rigging Costs**

#### Cost Information

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	
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
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
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	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

Tower mapping for an undocumented/poorly documented tower and preparation of	Component Description:	Amer Twr 460222426
documentation necessary for tower load study	Amount:	v200406jgv1 \$16,345.00
	Component Description:	Amer Twr 460222425
	Amount:	v200406jgv1 \$10,475.00
Major tower reinforcement		
/modifications	Component Description:	Train 17768
	Amount:	v200101jgv1 \$547,439.83
	Component Description:	Train 17811
	A	v200402jgv1
	Amount:	\$200,000.00
Tall Tower (greater than 500')	Information not provided.	

## **Outside Professional Services**

#### Cost Information

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 Justificatio
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 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 sta require additio legal ad related reimburse of finan costs rel to the re for WH
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
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	\$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
	Amount:	v200415jgv1 \$54.00
	Anount.	\$54.00
Additional Field	Information not provided.	
Engineering Service, 20		
Days		
RF Exposure Measurements	Information not provided.	
Comprehensive coverage verification via field study, if	Information not provided.	
needed		
FAA consultant, including	Information not provided.	
cost of preparing FAA Form		
7460 (Notice of Proposed		
Construction), if needed for height increase		
ASR modification (prepare		
FCC Form 854)	Component Description:	L Will 2020-0208
	component Description.	v200519jgv2
	Amount:	\$41.25
Attorney Fees - Prepare	Information not provided.	
and File request for Special		
Temporary Authorization		
Attorney Fees - Negotiation	Information not provided.	
of lease and other matters for shared locations		
Attorney Fees -Prepare and File FCC Form 2100	Information not provided.	
(main), License to Cover		
Application		

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description:	Legal preparation, review and filing of CP application for Main facility for WHYY
	Amount:	\$634.50
	Component Description:	Legal preparation, review and filing of CP application for
	Amount:	WHYY \$331.50
	Component Description:	Legal preparation, review and filing of construction permit application of main facility for WHYY
	Amount:	\$117.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100	Component Description	L Will 2019-02064
(main), Construction Permit	Component Description:	v190523jgv1
Application	Amount:	\$990.00
	Component Description:	Prepare engineering section of FCC 2100 (main) Construction
		Permit Application
	Amount:	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:	Legal review and advice related to Sched 399 reimbursement form WHYY \$540.00
	Component Description: Amount:	KGA 952-60 v200402jgv1 \$1,375.00
	Component Description: Amount:	KGA 952-19 v191206jgv1 \$463.75
	Component Description: Amount:	KGA 952-38 v200415jgv1 \$50.00

Component Description: Amount:	KGA 952-37 v191206jgv1 \$665.00
Component Description: Amount:	KGA 952-54 v200402jgv1 \$350.00
Component Description: Amount:	Review of Sched 399 for reimbursement budget equally split between WHYY and WDPB \$253.50
Component Description: Amount:	Prepare reimbursement form 399 for WHYY \$2,500.00
Component Description: Amount:	KGA 952-52 v200402jgv1 \$175.00
Component Description:	Legal review of Schedule 399 for reimbursement
Amount:	budget for WHYY \$250.50
Component Description: Amount:	Legal review of Sched 399 for reimbursement budget for WHYY \$136.50

	Component Description: Amount:	KGA 952-47 v200402jgv1 \$725.00
Prepare request for Special Temporary Authorization	Information not provided.	
Project management of the transition	Component Description:	Preparation of 399 amendment and and submission of actual cost invoices
	Amount:	for WHYY \$570.00
	Component Description:	KGA 952-21
	Amount:	v191206jgv1 \$150.00
	Component Description:	KGA 952-48
	Amount:	v200402jgv1 \$150.00
	Component Description:	KGA 952-40 v200415jgv1
	Amount:	\$150.00
	Component Description:	KGA 952-27 v191206jgv1
	Amount:	\$150.00
	Component Description:	Atty review of Form 387 progress
		report WHYY

	Component Description: Amount:	Quarterly progress report WHYY \$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:	Legal review of Schedule 387 3Q2017 for 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: Amount:	L Will 2019-02070 v200504jgv1 \$82.50
Component Description: Amount:	L Will 2019-02075 v200504jgv1 \$330.00
Component Description: Amount:	KGA 952-13 v190523pmv2 \$150.00
Component Description: Amount:	KGA 952-49 v200402jgv1 \$925.00
Component Description: Amount:	KGA 952-14 v190523pmv2 \$150.00
Component Description: Amount:	L Will 2019-02083 v200417jgv1 \$330.00
Component Description: Amount:	KGA 952-43 v200415jgv1 \$1,850.00
Component Description: Amount:	KGA 952-36 v191206jgv1 \$3,025.00
Component Description: Amount:	Processing Actual Cost Invoices \$1,562.50

Component Description:	L Will 2019-02063
Amount:	v191206jgv1 \$3,217.50

## **Other Expenses**

## Cost Information

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
AM Pattern Disturbance Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	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
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	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
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:	50 percent share of Legal Fees for line of credit
	Amount:	\$1,410.99
	Component Description:	50 percent share of Legal fees for
	Amount:	line of credit \$1,410.99
Other Transaction Fees		
	Component Description:	Band Debit for loan commitment fee for line of credit
	Amount:	\$4,000.00
	Component Description:	Courier services in connection with establishing a line of credit WHYY
	Amount:	\$13.50
Bank Fees	Information not provided.	
American Tower Temporary Site License	Component Description:	Amer Twr
		406783458 v191210jgv1
	Amount:	\$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.	

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

Reimbursem	envestiatus	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.	
		<ol> <li>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> </ol>	
		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 05/19/2020

Certification	Section	Question	Response
Certification	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (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> <li>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> </ol>	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 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).
- 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.

	<ul> <li>The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</li> <li>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.</li> </ul>	
an au name	are, under penalty of perjury, that I am athorized representative of the above- ed applicant for the Authorization(s) fied above.	Jeffrey C Gehman Engineering Associate
		05/19/2020

## Attachments