

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 72338 Service: DTV Call WHYY-TV Channel:

ID: Sign:

**12 (High VHF)** File **0000026256** 

Number:

FRN: **0004061909** Date **05/01** 

Submitted: /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 Name and Information Reimbursement Contact 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**

rs	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	
Manufacturer and Type	Model	DTT3M
	Year	2010
	Туре	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  Size  3 inches  Length  Other Electrical Service  No  Description  N/A  HVAC Service  Does the replacement transmitter require HVAC Service?  Type  N/A  Size  N/A  Other Size  N/A  Transmitter Building Addition/Modification or Leasehold Improvement  Size  N/A  Channel 14 Costs  Rigid Conduit and Wiring  Yes  3 inches  100.0 feet  N/A  No  No  Addition/for Size  N/A  No  Size  N/A  Is an RF Consulting Engineer needed?  N/A  Is additional field engineering time needed?  N/A			
Length 100.0 feet  Other Electrical Service No  Description N/A  HVAC Service Does the replacement transmitter require HVAC Service?  Type N/A  Size N/A  Other Size N/A  Transmitter Building Addition/Modification or Leasehold Improvement improvement?  Size N/A  Channel 14 Costs Is a channel 14 Mask Filer needed? N/A		Rigid Conduit and Wiring	Yes
Other Electrical Service No  Description N/A  HVAC Service  Does the replacement transmitter require HVAC Service?  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?  Size N/A  Channel 14 Costs  Is an RF Consulting Engineer needed? N/A  Is a channel 14 Mask Filer needed? N/A		Size	3 inches
Description N/A  HVAC Service  Does the replacement transmitter require HVAC Service?  Type N/A  Size N/A  Other Size N/A  Transmitter Building Addition/Modification or Leasehold Improvement  Size N/A  Does the Transmitter Building require an addition, modification, other leashold improvement?  Size N/A  Channel 14 Costs  Is an RF Consulting Engineer needed? N/A  Is a channel 14 Mask Filer needed? N/A		Length	100.0 feet
HVAC Service  Does the replacement transmitter require HVAC Service?  Type  N/A  Size  N/A  Other Size  N/A  Transmitter Building Addition/Modification or Leasehold Improvement  Size  No  Does the Transmitter Building require an addition, modification, other leashold improvement?  Size  N/A  Channel 14 Costs  Is an RF Consulting Engineer needed?  N/A		Other Electrical Service	No
HVAC Service?  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?  Size N/A  Channel 14 Costs  Is an RF Consulting Engineer needed? N/A  Is a channel 14 Mask Filer needed? N/A		Description	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?  Size N/A  Channel 14 Costs  Is an RF Consulting Engineer needed? N/A  Is a channel 14 Mask Filer needed? N/A	HVAC Service		No
Other Size  N/A  Transmitter Building Addition/Modification or Leasehold Improvement  Size  No  No  Addition, modification, other leashold improvement?  Size  N/A  Channel 14 Costs  Is an RF Consulting Engineer needed?  N/A  Is a channel 14 Mask Filer needed?  N/A		Туре	N/A
Transmitter Building Addition/Modification or Leasehold Improvement  Does the Transmitter Building require an addition, modification, other leashold improvement?  Size  N/A  Channel 14 Costs  Is an RF Consulting Engineer needed?  N/A  Is a channel 14 Mask Filer needed?  N/A		Size	N/A
Addition/Modification or Leasehold Improvement  Size  N/A  Channel 14 Costs  Is an RF Consulting Engineer needed?  N/A  Is a channel 14 Mask Filer needed?  N/A		Other Size	N/A
Channel 14 Costs  Is an RF Consulting Engineer needed?  N/A  Is a channel 14 Mask Filer needed?  N/A	Addition/Modification or	addition, modification, other leashold	No
Is a channel 14 Mask Filer needed?  N/A		Size	N/A
	Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
Is additional field engineering time needed? N/A		Is a channel 14 Mask Filer needed?	N/A
1.00		Is additional field engineering time needed?	N/A
Number of Days 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
Removal of old transmitter	Removal of old transmitter
Freight	Freight
Electrical	Electrical
RF Switch and Station Load	RF Switch and Station Load
Change Order	Change Order
Exhaust System	Exhaust System

Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch
Install and Proof	Install and Proof
Mask Filter System	Mask Filter System

#### **Antennas**

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

#### Primary Antenna

#### **Existing Antenna Information**

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	Horizontal Slotted Coaxial 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	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	Class	Full Power
Manufacturer and Types	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

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?	
	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 Other Antenna Cost Not Listed

**Antenna** Information not provided.

#### Interim Antenna

#### **New Antenna Costs**

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

# Primary Transmission

# **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	Manufacturer	Unknown
Line Manufacturer and 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

Transmission	Naine	Description
	Sweep Tests	Sweep to verify performance on assigned channel

#### Interim Transmissi

#### **New Transmission Line**

on Line Section	Question	Response
New Transmission Line Costs	Use	Interim
Costs	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 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.

# Other Transmission Line Expenses Not Listed Interim Transmission Line Expenses Not Listed Interim Interior 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**

Existing Tower Description	Type of change  Tower Use  Description of Use	Modify Existing Primary (Main) N/A
Description	Description of Use	, ,
	·	N/A
	Ownership	Leased
Is this tower consider Complex?	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 (	Latitude (NAD83)	40° 02' 30.9" N-
North American Datum 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 Type	GTOWER -
	Guyed
	Structure Used
	for
	Communication
	Purposes
Tower Owner	American
	Towers, LLC
Date Constructed	04/11/2008
24.0 00.101.401.04	3 17 17 2000

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

#### Other Types of Users

Users	
WRFF STL	
WIP STL	
WPHL 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

Section	Question	Response
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
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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

# Other Professional Services Expenses Not Listed

al	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 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	
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
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
Standby Exciter and Switch	\$25,000.00	\$25,000.00	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

Change Order	\$4,211.57	\$4,211.57	See attached / uploaded PDF file titled "Gates US0334375 v200421jgv1. pdf"	\$4,211.57	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.
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	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.
Additional Interior RF System	\$75,000.00	\$75,000.00	N/A	N/A	N/A

Sub-total	\$344,033.93	\$340,583.93	N/A	\$168,233.93	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	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
Freight	\$4,327.52	\$4,327.52	See attached / uploaded PDF file titled "Gates US0334375 v200421jgv1. pdf"	\$4,327.52	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

#### Components

<b>Actual Information</b>		
Description	File Name	

Mask Filter System		
	Component Description:	Gates JW30004691-2 v200420jgv1
	Amount:	\$4,214.95
	Component Description: Amount:	Gates US0334375 v200421jgv1 \$4,214.97
	Component Description:  Amount:	Gates JW30004691-1 v200420jgv1 \$4,214.95
	, and and	ψ1,211.00
Install and Proof		
	Component Description:	Gates JW30004691-1 v200420jgv1
	Amount:	\$5,402.33
	Component Description:	Gates JW30004691-2
	Amount:	v200420jgv1 \$5,402.33
	Component Description:	Gates US0334375 v200421jgv1
	Amount:	\$5,402.34
Standby Exciter and Switch	Information not provided.	
Exhaust System		
	Component Description:	Temptrol 5033 v200501jgv1
	Amount:	\$6,850.00

Change Order	Component Description:	Gates US0334375 v200421jgv1
	Amount:	\$4,211.57
RF Switch and Station Load		
	Component Description:	Gates US0334375 v200421jgv1
	Amount:	\$5,439.88
	Component Description:	Gates
		JW30004691-1
	Amount:	v200420jgv1 \$5,439.86
	Component Description:	Gates
		JW30004691-2
	Amount:	v200420jgv1 \$5,439.86
Electrical		
	Component Description:	Gates JW30004691-2
	Amount:	v200420jgv1 \$503.60
	Component Description:	Gates
		JW30004691-1
	Amount:	v200420jgv1 \$503.60
	Component Description:	Gates US0334375
	A	v200421jgv1
	Amount:	\$503.62
Transformer 3 phase/480v - 150 KVA	Information not provided.	

High VHF - Air Cooled Solid State Transmitter 4.8 kW		
	Component Description:	Gates US0334375
		v200421jgv1
	Amount:	\$34,802.53
	Component Description:	Gates
		JW30004691-1
		v200420jgv1
	Amount:	\$34,802.51
	Component Description:	Gates
		JW30004691-2
		v200420jgv1
	Amount:	\$34,802.51
Additional Interior RF System	Information not provided.	
Removal of old transmitter		
	Component Description:	JDog Junk 3826
		v200406jgv1
	Amount:	\$1,755.00
Freight		
	Component Description:	Gates US0334375
	2 cmpccm 2 cocription	v200421jgv1
	Amount:	\$4,327.52
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp	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 Justification
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	
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	\$1,061,247.89	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	Component Description: Amount:	PSI 2114DP v200403jgv1 \$35,333.33

# **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	\$1,061,247.89	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	
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	\$1,061,247.89	N/A

#### Components

Actual Information		
Description	File Name	

Tower mapping for an undocumented/poorly		
documented tower and	Component Description:	Amer Twr
preparation of		460222425
documentation necessary		v200406jgv1
for tower load study	Amount:	\$10,475.00
	Component Description:	Amer Twr
		460222426
		v200406jgv1
	Amount:	\$16,345.00
Major tower reinforcement		
/modifications	Component Description:	Train 17768
		v200101jgv1
	Amount:	\$547,439.83
	Component Description:	Train 17811
	Component Description.	v200402jgv1
	Amount:	\$200,000.00
Tall Tower (greater than 500')	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 Cos
Outside Professional Services	\$225,830.00	\$218,604.00		\$26,352.00	
Other Legal Services	\$ <b>54</b> .00	\$54.00	Other Legal Services related to the DTV Repack	\$54.00	N/A
Other Engineering Services	\$20,000.00	\$20,000.00	created new category 1- 15-19	\$13,192.50	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
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$41.25	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

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 state require addition legal adversemburse of finance costs related to the reperture for WH
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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
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
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	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
Sub-total	\$225,830.00	\$218,604.00	N/A	\$26,352.00	N/A
Total for all systems	\$1,719,424.93	\$2,424,238.69	N/A	\$1,061,247.89	N/A

#### Components

Actual Information Description	File Name	
Other Legal Services		
	Component Description:	GSB 723063
		v200415jgv1
	Amount:	\$54.00
Other Engineering Services	i -	
	Component Description:	Processing Actual
		Cost Invoices
	Amount:	\$1,562.50
	Component Description:	KGA 952-55
	i i	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 2019-02063 v191206jgv1

**Amount:** \$3,217.50

Component Description: KGA 952-36

v191206jgv1

**Amount:** \$3,025.00

Component Description: KGA 952-43

v200415jgv1

**Amount:** \$1,850.00

Component Description: KGA 952-13

v190523pmv2

**Amount:** \$150.00

Component Description: KGA 952-49

v200402jgv1

**Amount:** \$925.00

Component Description: L Will 2019-02083

v200417jgv1

**Amount:** \$330.00

Component Description: KGA 952-14

v190523pmv2

**Amount:** \$150.00

Additional Field

Engineering Service 2

Engineering Service, 20

Days

Information not provided.

RF Exposure

Measurements

Information not provided.

ASR modification (prepare FCC Form 854)	Component Description: Amount:	L Will 2019-02088 v200417jgv1 \$41.25
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:	Legal preparation, review and filing of CP application for WHYY
	Amount:	\$331.50
	Component Description:	Legal preparation, review and filing of construction permit application of main facility for WHYY
	Amount:	\$117.00
	Component Description:	Legal preparation, review and filing of CP application for Main facility for WHYY
	Amount:	\$634.50
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 **Component Description:** Prepare (main), Construction Permit engineering section Application of FCC 2100 (main) Construction Permit Application for WHYY Amount: \$1,320.00 **Component Description:** L Will 2019-02064 v190523jgv1 **Amount:** \$990.00 Perform engineering study for new channel **Component Description:** Perform assignment and antenna engineering study development for new channel assignment and antenna development for WHYY Amount: \$660.00 Prepare and or review reimbursement form **Component Description:** KGA 952-52 v200402jgv1 Amount: \$175.00 **Component Description:** KGA 952-60 v200402jgv1 Amount: \$1,375.00 **Component Description:** KGA 952-19 v191206jgv1 Amount: \$463.75 **Component Description:** KGA 952-38 v200415jgv1 \$50.00 Amount:

Component Description: KGA 952-37

v191206jgv1

**Amount:** \$665.00

Component Description: Legal review of

Sched 399 for reimbursement budget for WHYY

**Amount:** \$136.50

Component Description: KGA 952-54

v200402jgv1

**Amount:** \$350.00

Component Description: KGA 952-47

v200402jgv1

**Amount:** \$725.00

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

Component Description: Legal review and

advice related to Sched 399 reimbursement form WHYY

**Amount:** \$540.00

		Legal review of Schedule 399 for reimbursement
	Amount:	budget for WHYY \$250.50
Comprehensive coverage verification via field study, if needed	Information not provided.	
Project management of the		
transition	Component Description:	Prepare and file Form 387 for 3Q2017 WHYY
	Amount:	\$300.00
	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:	Prepare form 387
		progress report
	A	WHYY
	Amount:	\$225.00

Component Description: Atty review of Form

387 progress report WHYY

**Amount:** \$367.50

Component Description: Quarterly progress

report WHYY

**Amount:** \$225.00

Component Description: Legal review of

Schedule 387 3Q2017 for WHYY

**Amount:** \$39.00

**Component Description:** Preparation of 399

amendment and and submission of actual cost invoices

for WHYY

**Amount:** \$570.00

Component Description: Atty review of form

387 progress report WHYY

**Amount:** \$39.00

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase Information not provided.

Attorney Fees - Prepare and File request for Special Temporary Authorization Information not provided.

Address transition timing and coordination issues w/ other stations and wireless

Component Description: Address transition

timing and

coordination issues w/ other stations and wireless

providers

**Amount:** \$58.50

## **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
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
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
AM Pattern Disturbance Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A

Total for all systems	\$1,719,424.93	\$2,424,238.69	N/A	\$1,061,247.89	N/A
Sub-total	\$190,121.00	\$188,131.00	N/A	\$41,235.48	N/A
			12.7.17.pdf		
			WDPB		
			WHYY &		
			Costs		
			Financing		
			Repack		
			attachment		
			to		
			Fees Refer		
			Transaction		
1 063			Other		
Fees			12-19-17 Bank Fees,		
Other Transaction	\$6,300.00	\$6,300.00	Amended	\$13.50	N/A
<b>-</b>			·	<b></b>	,
			12.7.17.pdf		
			WDPB		
			WHYY &		
			Costs		
			Repack Financing		
			attachment		
			Refer to		
			12-19-17		
Interest	\$19,281.00	\$19,281.00	Amended	\$0.00	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:	50 percent share of Legal Fees for
	Amount:	line of credit \$1,410.99

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.	
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.	
AM Pattern Disturbance Impact study	Information not provided.	
Interest	Information not provided.	

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

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$1,719,424.93	\$2,424,238.69	\$1,061,247.89

Reimbursem	entestatus	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

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 abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

05/01/2020

Section Question Response

# 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).

- 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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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).
- 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.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 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.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

05/01/2020

#### **Attachments**