

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 12499 Service: DTV Call WPSG Channel: 33 (UHF)

ID: File Sign: **0000027372**

Number:

FRN: **0003742608** Date **05/10**

Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
PHILADELPHIA TELEVISION STATION WPSG, INC. Doing Business As: PHILADELPHIA TELEVISION STATION WPSG, INC.	Daniel G. Ryson 1725 DESALES ST NW SUITE 501 WASHINGTON, DC 20036 United States	+1 (202) 457- 4074	DRYSON@CBS.	Corporation

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
Daniel G Ryson Associate Director of Spectrum Management CBS	Daniel G. Ryson 1725 DeSales Street NW Suite 501 Washington, DC 20036 United States	+1 (202) 457- 4074	dryson@cbs. 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.	Yes
Briefly describe transition plan	New side mount antenna for interim use will be installed on tower ASR 1023152 while new top mount stacked UHF ch 33 antenna is mounted on tower ASR 1035474.

Transmitters

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

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	Sigma CD200P2
	Year	1999
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTED-80
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50.6 kW
	Justification for New Transmitter	Manufacturer cannot retune any IOT transmitters (Attachment 1) and the proposed solid-state transmitter (Attachment 2) is less expensive than a new IOT transmitter (Attachment 3). See Statement and Attachment 7 for additional justification.

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	75.0 feet
	Other Electrical Service	Yes
	Description	100 feet each of two- inch and three-inch conduit.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	5 tons
	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

Other Transmitter Cost Not Listed

Name	Description
Shipping	Transmitter Shipping. See Attachment 18, Page 1.
RF Accessories, Switching	Various RF Accessories and Inside RF Switching required by repack transmitter. See Attachment 18, Item C.
Electrical Accessories	150 kVA Transformer and Parallel Surge Suppressor. Required for reliable operation of primary transmitter. See Attachment 18, Item D.

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	Maxiva ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25 kW
	Justification for New Transmitter	Interim transmitter for UHF 32 use while main transmitter, antenna, and T/L are replaced for operation on UHF 33.

Interim Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	4 inches

	Length	50.0 feet
	Other Electrical Service	Yes
	Description	One hundred feet each of two-inch and three- inch conduit.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	5 tons
	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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description	
Shipping	Transmitter Shipping. See Attachment 4, Page 1.	
Electrical Accessories	150 kVA Transformer and Parallel Surge Suppressor. Required for reliable operation of primary transmitter. See Attachment 4, Item D.	

RF Accessories	Various RF Accessories required by repack	
	transmitter. See Attachment 4, Item C.	

Antennas

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

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?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Bottom
	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)	800.0 kW

Manufacturer	
Model	TFU- 26GTH-R- C190SP
Year	1999

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?	Yes
	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?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Elliptical
	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)	800.0 kW
	Manufacturer	

Model	TFU-26GTH /VP-R C190SP
Year	2018
Justification for New Antenna	Existing antenna cannot be retuned.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Name	Description
Wedding Cake Adapter	Mechanical adapter for top mounting in a stack. See Attachment 5.
Feed Through Components	Elbows, cut lengths and hangers required to route transmission line from antenna input through antenna below into tower. See Attachment 5.

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?	Yes
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	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)	190.6 kW
	Manufacturer	
	Model	TFU-16WB /VP C160
	Year	2018

Justification for New Antenna	Off site use
	due to
	construction
	of post
	transition
	facility.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
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 Line

Existing Transmission Line

on Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	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	
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1241 feet per run

Primary

New Transmission Line

Transmission	n Line Settion	Question	Response
	New Transmission Line Costs	Use	Primary (Main)
		Description of Use	N/A
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	19 1/2 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1386 feet per run
		Justification for New Transmission Line	Existing segments incorrect match for new channel.

Primary Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

Interim

New Transmission Line

Transmission Line	n Line Section	Question	Response
New Transmission Line		Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	6 1/8 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	1
		Length	800 feet per run
	Justification for New Transmission Line	New interim site requires new T/L	

Interim

Other Transmission Line Expenses Not Listed

Transmissionnionetion 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

Auxiliary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Post- Transition Primary
	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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Yes
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1035474
Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	40° 02' 33.0" N-
1983))	Longitude (NAD83)	075° 14' 32.0" W-
	Overall Structure Height	1276.23 feet
	Support Structure Height	1272.95 feet

Ground Elevation Above Mean Sea Level (AMSL)	242.78 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	ABC, INC. DBA = WPVI-TV
Date Constructed	10/23/1998

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
8616	WPVI-TV	DTV
25453	KYW-TV	DTV

Auxiliary 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:	No reinforcements needed

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

Auxiliary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Interim
	Ownership	Leased
	Is this tower consider Complex?	
	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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
Registration	ASR Number	1023152
Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	40° 02' 39.0" N-
1983))	Longitude (NAD83)	075° 14' 25.0" W-
	Overall Structure Height	1116.13 feet
	Support Structure Height	1112.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	252.29 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

Tower Owner	ABC INC DBA = WPVI-TV
Date Constructed	01/01/1957

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
25453	KYW-TV	DTV
8616	WPVI-TV	DTV

Auxiliary 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

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

Primary Tower

Existing 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?	Candelabra
	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	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1231524
Coordinates (NAD83 (North American Datum	Latitude (NAD83)	40° 02' 30.1" N-
of 1983))	Longitude (NAD83)	075° 14' 10.1" W-
	Overall Structure Height	1254.91 feet
	Support Structure Height	1124.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	292.98 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes

Tower Owner	Global Tower, LLC. through American Towers, LLC
Date Constructed	11/02/2011

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
60560	WUVP-DT	DTV
65190	WRTI	FM
63153	WCAU	DTV
74213	WXTU	FM
51984	WPPX-TV	DTV
9622	WOGL	FM
28628	WIP-FM	FM
1283	KJWP	DTV
12211	WPPZ-FM	FM
30572	WPHI-FM	FM
28480	WYBE	DTV
51434	WTDY-FM	FM
7623	WGTW-TV	DTV

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:	No reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Site Coordination Meeting	Site coordination meetings with tower owner, other broadcasters, contractors, and vendors involved with the site deliveries and construction. See Attachment 9 Line 1-B-1.
Structural Engineering	Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment. See Attachment 9 Line 3-A-1.
Tower Project Management	Project management fee from tower owner. Scheduling and management of the timelines and schedules occurring during the repack. See Attachment 9 Line 1-A-1.

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Company lacks sufficient internal resources.
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	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	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	No
Sei Vices	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No

	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days N/A	
	Justification	N/A

Outside
Professional Services Expenses Not Listed
Professional Services Costsided.

Other Expenses

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

Other Expenses Not Listed

Expenses Information not provided.

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
Interim Transmitter Maxiva ULXTE-40	\$1,220,343.36	\$1,045,356.88		\$291,302.29	
RF Accessories	\$78,062.54	\$78,062.54	RF Accessories Required for Transmitter. Please See Attachment 4, Item C.	N/A	N/A
Shipping	\$7,700.00	\$7,700.00	Transmitter Shipping. Please see Attachment 4, Page 1.	N/A	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	N/A	N/A
5 Ton system	\$20,250.00	\$19,250.00	Widelity Cost Catalog estimate	N/A	N/A
Other Electrical Service: One hundred feet each of two- inch and three-inch conduit.	\$7,400.00	\$7,400.00	Required to power transmitter equipment.	N/A	N/A

4" Rigid Conduit and Wiring (Cost per foot)	\$5,050.00	\$4,800.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$780,763.52	See Attachment 2, Items A, B, and E.	\$291,302.29	N/A
Electrical Accessories	\$7,380.82	\$7,380.82	Transmitter Electrical Accessories. Includes Step-Down Transformer and Surge Suppressor. See Attachment 4, Item D.	N/A	N/A
Primary Transmitter ULXTED-80	\$1,660,840.43	\$1,659,465.43		\$502,839.60	
4" Rigid Conduit and Wiring (Cost per foot)	\$7,575.00	\$7,200.00	N/A	N/A	N/A
Other Electrical Service: 100 feet each of two-inch and three- inch conduit.	\$7,400.00	\$7,400.00	100 feet each of two- inch and three-inch conduit. Widelity Cost Catalog pricing used.	N/A	N/A
5 Ton system	\$20,250.00	\$19,250.00	Widelity Cost	N/A	N/A

UHF - Liquid	\$1,388,470.00	\$1,388,470.00	This cost is	\$502,839.60	N/A
Cooled			for an IOT		
Solid State			transmitter		
Transmitter			capable of		
50.6 kW			meeting the		
			HPol-only		
			ERP. See		
			Engineering		
			Statement,		
			Attachment		
			3, and		
			Attachment		
			7.		
Shipping	\$17,300.00	\$17,300.00	Transmitter	N/A	N/A
			Shipping		
			from		
			Factory.		
			See		
			Attachment		
			18, Page 1.		
Electrical	\$15,592.24	\$15,592.24	Transmitter	N/A	N/A
Accessories			Electrical		
			Accessories.		
			Includes		
			Step-Down		
			Transformer		
			and Parallel		
			Surge		
			Suppressor.		
			See		
			Attachment		
			18 - Item D.		
RF	\$204,253.19	\$204,253.19	RF	N/A	N/A
Accessories,		·	Accessories		
Switching			and		
- Witter in 19			Switchless		
			Combiner.		
			Replaces		
			Similar		
			Existing		
			Combiner.		
			See		
			Attachment		
			18 Item C.		
Sub-total	\$2,881,183.79	\$2,704,822.31	N/A	\$794,141.89	N/A

Total for all	\$5,506,201.79	\$4,286,075.91	N/A	\$796,691.89	N/A
systems					

Actual Information Description	File Name	
RF Accessories	Information not provided.	
Shipping	Information not provided.	
UHF inside RF system including switching	Information not provided.	
5 Ton system	Information not provided.	
Other Electrical Service: One hundred feet each of two-inch and three-inch conduit.	Information not provided.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description: Amount:	1/3 Down Payment, Interim Transmitter. See Quote Provided as Attachment 4. \$291,302.29
Electrical Accessories	Information not provided.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Other Electrical Service: 100 feet each of two-inch and three-inch conduit.	Information not provided.	
5 Ton system	Information not provided.	

UHF - Liquid Cooled Solid		
State Transmitter 50.6 kW	Component Description:	Transmitter 1/3
		Down Payment.
		See Attachment
		19 and
		Attachment 18 -
		Revised
		Transmitter Quote
		Q-74288.
	Amount:	\$502,839.60
Shipping	Information not provided.	
Electrical Accessories	Information not provided.	
	Information not provided.	

Antennas

Description Interim Antenna	Predetermined Cost Estimate \$138,240.00	Estimated Cost \$135,328.00	Estimated Cost Justification	Actual Cost \$0.00	Actual Cost Justification
TFU-16WB /VP C160					
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One Station antenna . medium power (50- 200 kW), elliptically or circularly polarized	\$103,100.00	\$101,928.00	Please see Attachment 8, Line 1. The estimate includes a broadband elbow complex (Attachment 8, Line 3) and excludes vertical polarization cost.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	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 TFU-26GTH /VP-R C190SP	\$347,766.00	\$275,609.00		\$0.00	
Feed Through Components	\$20,906.00	\$20,906.00	Required elbows, cut lengths and hangers to route line from antenna input through antenna below into tower. See Attachment 5.	N/A	N/A
Wedding Cake Adapter	\$18,330.00	\$18,330.00	Required to top mount antenna in a stack. See Attachment 5.	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	See Attachment 5.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See Attachment 5.	N/A	N/A

UHF - High	\$289,500.00	\$219,675.00	See	N/A	N/A
Power Top			Attachment		
Mount (200-			5 Line 1		
1000 kW),			(cost of		
One station			vertical		
antenna,			polarization		
elliptically			component		
or circularly			subtracted		
polarized			from cost		
			shown.)		
Sub-total	\$486,006.00	\$410,937.00	N/A	\$0.00	N/A
Total for all systems	\$5,506,201.79	\$4,286,075.91	N/A	\$796,691.89	N/A

Information not provided.

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	\$185,600.00	\$153,130.60		\$0.00	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$185,600.00	\$153,130.60	See Attachment 8, Line 2.	N/A	N/A
Primary Transmission Line	\$279,972.00	\$190,666.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$279,972.00	\$190,666.00	See Attachment 5 Line 6.	N/A	N/A
Sub-total	\$465,572.00	\$343,796.60	N/A	\$0.00	N/A
Total for all systems	\$5,506,201.79	\$4,286,075.91	N/A	\$796,691.89	N/A

Components

Information not provided.

Tower Equipment and Rigging Costs

Description Primary Tower	Predetermined Cost Estimate \$456,355.00	Estimated Cost \$199,255.00	Estimated Cost Justification	Actual Cost	Actual Cost Justification
GTOWER	\$430,333.00	φ1 33 ,233.00		φυ.υυ	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$184,000.00	Antenna to be removed is the top of a stack on a candelabra. Transmission line to be removed. See Attachment 9 Line 3-C-1.	N/A	N/A
Tower Project Management	\$2,500.00	\$2,500.00	Project management fee from tower owner. Scheduling and management of the timelines and schedules occurring during the repack. See Attachment 9 Line 1-A-1.	N/A	N/A

Site	\$1,667.00	\$1,667.00	Site	N/A	N/A
Coordination			coordination		
Meeting			meetings with		
			tower owner,		
			other		
			broadcasters,		
			contractors,		
			and vendors		
			involved with		
			the site		
			deliveries and		
			construction.		
			See		
			Attachment 9		
			Line 1-B-1.		
Structural	\$4,888.00	\$4,888.00	Rigorous	N/A	N/A
Engineering			Structural		
			analysis to		
			,		
			access the		
			access the		
			access the structural		
			access the structural capacity and		
			access the structural capacity and modifications		
			access the structural capacity and modifications needed to		
			access the structural capacity and modifications needed to accommodate		
			access the structural capacity and modifications needed to accommodate the repacked		
			access the structural capacity and modifications needed to accommodate the repacked equipment.		

Auxiliary Tower TOWER	\$868,300.00	\$412,500.00		\$0.00	
			KYW-TV.		
			shared with		
			of cost is		
			pricing. Half		
(greater triain 500')			Catalog		
(greater than	φ2 10,300.00	φ100,000.00	Widelity Cost	1 N/ <i>F</i> 1	IN/
Tall Tower	\$210,500.00	\$100,000.00	50% of	N/A	N/.
study					
tower load					
necessary for			,		
documentation			25453).		
preparation of			(Facility ID		
tower and			KYW-TV		
documented			shared with		
/poorly			of cost is		
undocumented			pricing. Half		
an			Catalog		
mapping for	+	Ţ. <u>=</u> ,000.00	Widelity Cost	40.00	1 4/
Tower	\$26,300.00	\$12,500.00	50% of	\$0.00	N/.
Auxiliary Tower TOWER	\$236,800.00	\$112,500.00		\$0.00	
			line 3-A-1.		
			Attachment 9		
			See		
			equipment.		
			repack		
			proposed		
			for the		
Judy			assessment		
study			structural		
tower load			rigorous		
necessary for			for the		
documentation			engineering		
preparation of			relayed to		
tower and			information is		
documented			structural		
/poorly			proper		
undocumented			ensure the		
mapping for an			mapping to		
			tower		

Tower (includes, for example, floss with candelabras shared with and/or stacked antennas) Tower \$26,300.00 \$12,500.00 \$0% of widelity Cost catalog pricing. Half of cost is shared with antennas. Tower \$26,300.00 \$12,500.00 \$0% of widelity Cost Catalog pricing. Half of cost is shared with tower and preparation of documented tower load study Major tower \$421,000.00 \$200,000.00 \$0% of Widelity Cost Catalog pricing. Half of cost is shared with tower load study Major tower \$421,000.00 \$200,000.00 \$0% of Widelity Cost Catalog pricing. Half of cost is shared with KYW-TV. Sub-total \$1,561,455.00 \$724,255.00 N/A \$0.00 N/A \$	Compley	£424 000 00	#200 000 00	E00/ -4	N1/A	NI/A
(includes, for example, those with candelabras and/or KYW-TV stacked (Facility ID antennas)		⊅4∠1,000.00	⊅∠∪∪,∪∪∪.∪∪		IN/A	N/A
example, those with candelabras shared with shared with stacked (Facility ID antennas)						
those with candelabras and/or stacked (Facility ID antennas) 25453). Tower stacked (Facility ID antennas) 25453). Tower is complex due to stacked antennas. Tower season of widelity Cost Catalog pricing. Half of cost is shared with the stacked study 250,000.00 50% of Widelity Cost Catalog pricing. Half of cost is shared with the stacked study 250,000.00 50% of Widelity Cost Catalog pricing. Half of cost is shared with the stacked with the stacked shared with the shared with the shared with the shared with the stacked shared with the shared with the shared with the stacked shared with the shared wi	•			_		
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/poorly	an			Catalog		
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reinforcement /modifications	study					
/modifications Catalog pricing. Half of cost is shared with KYW-TV. Sub-total \$1,561,455.00 \$724,255.00 N/A \$0.00 N Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N	Major tower	\$421,000.00	\$200,000.00	50% of	N/A	N/A
pricing. Half of cost is shared with KYW-TV. Sub-total \$1,561,455.00 \$724,255.00 N/A \$0.00 N Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N	reinforcement			Widelity Cost		
of cost is shared with KYW-TV. Sub-total \$1,561,455.00 \$724,255.00 N/A \$0.00 N Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N	/modifications			Catalog		
shared with KYW-TV. Sub-total \$1,561,455.00 \$724,255.00 N/A \$0.00 N Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N				pricing. Half		
KYW-TV. Sub-total \$1,561,455.00 \$724,255.00 N/A \$0.00 N Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N				of cost is		
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Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N				KYW-TV.		
	Sub-total	\$1,561,455.00	\$724,255.00	N/A	\$0.00	N/A
systems	Total for all systems	\$5,506,201.79	\$4,286,075.91	N/A	\$796,691.89	N/A

Actual Information Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.

Tower Project Management	Information not provided.	
Site Coordination Meeting	Information not provided.	
Structural Engineering	Information not provided.	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description: Amount:	Invoice is for a 50% Down payment. Because this expense is shared with KYW-TV Facility ID 25453, WPSG seeks reimbursement for only half of the Total Invoice Amount. \$3,950.00
Tall Tower (greater than 500')	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Component Description: Invoice is for a

50% Down

payment. Because this expense is shared with KYW-TV Facility ID 25453, WPSG

seeks

reimbursement for only half of the **Total Invoice** Amount.

\$4,375.00 Amount:

Component Description: Invoice is for a

50% Down

payment. Because this expense is shared with KYW-TV Facility ID 25453, WPSG

seeks

reimbursement for only half of the **Total Invoice** Amount.

\$4,375.00

Major tower reinforcement

Information not provided.

Amount:

/modifications

Outside Professional Services

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost	Actual Cost	Actual Cost Justification
Outside Professional Services	\$58,905.00	\$55,500.00		\$2,550.00	
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	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	\$1,375.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,175.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Project management of the transition	\$39,500.00	\$37,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Sub-total	\$58,905.00	\$55,500.00	N/A	\$2,550.00	N/A
Total for all systems	\$5,506,201.79	\$4,286,075.91	N/A	\$796,691.89	N/A

Actual Information Description	File Name	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepare FCC Form 2100 CP Application, Engineering Section. \$1,375.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Further interference study \$562.50
	Component Description: Amount:	Preliminary interference study. \$612.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Project management of the transition	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.

Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$53,080.00	\$46,765.00		\$0.00	
Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$20,000.00	\$20,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,250.00	N/A	N/A	N/A
Local Zoning	\$5,000.00	\$5,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Sub-total	\$53,080.00	\$46,765.00	N/A	\$0.00	N/A

Total for all \$5,506,201.79 \$4,286,075.91 N/A \$796,691.89 N/A **systems**

Components

Information not provided.

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,506,201.79	\$4,286,075.91	\$796,691.89

Reimbursem	enrestiatus	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. Andrew J Siegel Assistant Secretary

05/10/2018

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. Andrew J Siegel Assistant Secretary

05/10/2018

Attachments