



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **25453** | Service: **DTV** | Call **KYW-TV** | Channel: **30 (UHF)** |
ID: | Sign:
File **0000027398**
Number:
FRN: **0003482189** | Date **11/19**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

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

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Daniel G Ryson <i>Associate Director of Spectrum Management</i> 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 bottom mount stacked UHF 30 antenna is mounted on Tower ASR 1035474.

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Sigma CD200P2
	Year	1999
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTED-144
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	94.4 kW
	Justification for New Transmitter	See Attachment 25 - Attachment 25 - Primary Transmitter and Antenna Overview and Cost Considerations Statement. Comparable transmitter is a ULXTED-120.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches

	Length	100.0 feet
	Other Electrical Service	Yes
	Description	100 feet of 2-inch conduit and 100 feet of 3-inch conduit.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Surge Suppressor	Parallel surge suppressor required for proper operation of transmitter. See Attachment 2A, Item D2.

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 kW
	Justification for New Transmitter	Transmitter required at interim site while main site antenna and transmission line are being replaced.

**Interim
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	50.0 feet

	Other Electrical Service	Yes
	Description	100 feet each of 2-inch and 3-inch conduit.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	0.0 square feet
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
Surge Suppressor	Parallel surge suppressor. Required for proper operation of interim transmitter. See Attachment 4, Item D1.

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	790.0 kW

Manufacturer	
Model	TFU-30GBH-R
Year	1999

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	960.0 kW
	Manufacturer	
	Model	TFU-28JBH/VP-R O8
	Year	2019

	Justification for New Antenna	Existing antenna cannot be retuned. Quote revised to improve pattern after accommodating top-mount WPSG(TV) Philadelphia. See Attachment 25.
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Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	8 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
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
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**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	179.5 kW
	Manufacturer	
	Model	TFU-16WB /VP C160
	Year	2018

	Justification for New Antenna	Main site unavailable during construction of post-transition facility.
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**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 Line

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

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	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 Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1550 feet per run

Primary
Transmission Line

New Transmission Line

Section	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
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1350 feet per run
	Justification for New Transmission Line	Existing segments are an incorrect match for new channel. (Line Length reduced from 1,550 to 1,350 feet 19 Nov 2019.) See Attachment 5A.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
Information not provided.	

Interim
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	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	Interim site requires transmitter to be connected to the antenna.

Interim
Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

**Tower
Equipment
And
Rigging
Costs**

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

**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?	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1023152
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 02' 39.0" N-
	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
12499	WPSG	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	N/A

Helicopter Services Required	Are helicopter services required?	No
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**Auxiliary
Tower**

Other Tower Expenses Not Listed

Information not provided.

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	
	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 Registration	Do you have a tower registration number?	Yes
	ASR Number	1035474
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 02' 33.0" N-
	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
12499	WPSG	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	Other
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	250
	Explanation	Company lacks 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	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	No
	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 Costs **Other Professional Services Expenses Not Listed**

Services provided.

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	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?	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**

Other Expenses Not Listed

Name		Description
FCC Filing Fee - STL		FCC Filing Fee - STL
Interim Bldg. Electrical Contractor		Interim Bldg. Electrical Contractor
Interim Bldg. Fire Detection		Interim Building Fire Detection and Suppression System.
Interim Bldg. GC and Mech. Contractor		Interim Bldg. GC and Mech. Contractor
STL to Interim Site		STL Hardware to Interim Site

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 ULXTE-40	\$1,250,510.82	\$1,052,344.34		\$291,302.29	
Surge Suppressor	<i>\$1,510.82</i>	\$1,510.82	Parallel surge suppressor. Required for proper operation of interim transmitter. See Attachment 4, Item D1.	N/A	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	N/A	N/A
Other -- Building Addition Size: 0.0	<i>\$25,000.00</i>	\$25,000.00	Leasehold improvements to building required to accommodate new transmitter equipment.	N/A	N/A
Other Electrical Service: 100 feet each of 2-inch and 3-inch conduit.	<i>\$7,400.00</i>	\$7,400.00	100 feet each of two-inch and three-inch conduit. Widelity Cost Catalog pricing used.	N/A	N/A
25 Ton system	\$91,500.00	\$87,000.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$780,763.52	See Attachment 4, Items A, B, and E.	\$291,302.29	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$5,870.00	Required for proper operation of the interim transmitter. See Attachment 4, Item D1.	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$5,050.00	\$4,800.00	N/A	N/A	N/A
Primary Transmitter ULXTED-144	\$4,566,821.64	\$3,202,440.00		\$1,329,469.44	
Surge Suppressor	\$3,021.64	\$3,021.64	Parallel surge suppressor is required for proper operation of transmitter. See Attachment 2A, Item D2.	\$2,014.43	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$14,993.60	Required for proper operation of repack transmitter. See Attachment 2A, Item D1.	\$9,995.73	N/A

UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	\$2,630,000.00	\$1,756,960.40	Cost based on ULXTED- 120 Estimate (Attachment 2A) line Items A, B, C, and E minus already- reimbursed \$642,803.95 from GatesAir Invoice GO10004708- DP in another now-locked cost category. See also Attachment 25.	\$674,655.33	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,323,464.36	***System Notice: Estimate adjusted and locked because line has been superseded. ***This cost is for an IOT transmitter capable of meeting our HPol-only CCRPN ERP.	\$642,803.95	N/A
25 Ton system	\$91,500.00	\$87,000.00	N/A	N/A	N/A
Other Electrical Service: 100 feet of 2-inch conduit and 100 feet of 3-inch conduit.	\$7,400.00	\$7,400.00	100 feet each of two-inch and three- inch conduit. Widely Cost Catalog pricing used.	N/A	N/A

4" Rigid Conduit and Wiring (Cost per foot)	\$10,100.00	\$9,600.00	N/A	N/A	N/A
Sub-total	\$5,817,332.46	\$4,254,784.34	N/A	\$1,620,771.73	N/A
Total for all systems	\$8,988,365.46	\$6,756,889.19	N/A	\$2,638,104.55	N/A

Components

Actual Information	
Description	File Name
Surge Suppressor	Information not provided.
UHF inside RF system including switching	Information not provided.
Other -- Building Addition Size: 0.0	Information not provided.
Other Electrical Service: 100 feet each of 2-inch and 3-inch conduit.	Information not provided.
25 Ton system	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description: Invoice is for 1/3 down payment for interim transmitter. Amount: \$291,302.29
Transformer 3 phase/480v - 150 KVA	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Surge Suppressor	<p>Component Description:</p> <p>This invoice is the primary transmitter progress payment. The amount shown here is 2/3 of the quote shown in Attachment 2A line item D2.</p> <p>Amount:</p> <p>\$2,014.43</p>
Transformer 3 phase/480v - 300 KVA	<p>Component Description:</p> <p>Invoice is for primary transmitter progress payment. The amount shown here is 2/3 of the quote shown in Attachment 2A item D1.</p> <p>Amount:</p> <p>\$9,995.73</p>
UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	<p>Component Description:</p> <p>"Comparable" ULXTED-120 transmitter down payment based on Attachment 13A line items A,B,C, and E. Invoice supersedes Attachment 13 in now locked cost category. See also Attachment 25.</p> <p>Amount:</p> <p>\$674,655.33</p>

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<div> <div> Component Description: </div> <div> CBS requests to have this cost rejected since it has been moved to the revised transmitter category. </div> </div> <div> Amount: </div> <div> N/A </div> <div> Component Description: </div> <div> Invoice is for 1/3 down payment for main transmitter. </div> <div> Amount: </div> <div> \$642,803.95 </div>
25 Ton system	Information not provided.
Other Electrical Service: 100 feet of 2-inch conduit and 100 feet of 3-inch conduit.	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	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 TFU-16WB /VP C160	\$138,240.00	\$135,325.00		\$0.00	
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
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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	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	\$101,925.00	Please see Attachment 6, Line 1. The estimate includes a broadband elbow complex (Attachment 6, Line 4) and excludes vertical polarization cost.	N/A	N/A
Primary Antenna TFU-28JBH /VP-R 08	\$311,480.00	\$413,253.00		\$371,927.70	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$13,583.00	See Attachment 5A, Line 2.	\$12,224.70	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see Attachment 5A, Line 22.	\$5,760.00	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$393,270.00	Antenna requires additional structural capability to support other antenna stacked above and pattern optimization to compensate for nearby transmission line. See Attachment 5A, Line 1 (minus \$37,200 for upgraded V- Pol cost) and Attachment 25.	\$353,943.00	N/A
Sub-total	\$449,720.00	\$548,578.00	N/A	\$371,927.70	N/A
Total for all systems	\$8,988,365.46	\$6,756,889.19	N/A	\$2,638,104.55	N/A

Components

Actual Information	
Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.

UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	Information not provided.	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	Component Description: Amount:	Elbow complex 45% down payment. See Attachment 5A for quotation and Attachment 25 for further info. \$6,112.35 Elbow complex 45% progress payment. See Attachment 5A for quotation and Attachment 25 for further info. \$6,112.35
Sweep test of existing antenna	Component Description: Amount:	Sweep testing 45% down payment. See Attachment 5A for quotation and Attachment 25 for further info. \$2,880.00 Sweep testing 45% progress payment. See Attachment 5A for quotation and Attachment 25 for further info. \$2,880.00

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="719 174 1027 208">Component Description:</td><td data-bbox="1161 174 1374 443">Antenna minus V-Pol cost 45% down payment. See Attachment 5A for quotation and Attachment 25 for further info.</td></tr> <tr> <td data-bbox="719 454 831 488">Amount:</td><td data-bbox="1161 454 1310 488">\$176,971.50</td></tr> <tr> <td data-bbox="719 595 1027 629">Component Description:</td><td data-bbox="1161 595 1374 902">Antenna minus V-Pol cost 45% progress payment. See Attachment 5A for quotation and Attachment 25 for further info.</td></tr> <tr> <td data-bbox="719 913 831 947">Amount:</td><td data-bbox="1161 913 1310 947">\$176,971.50</td></tr> </table>	Component Description:	Antenna minus V-Pol cost 45% down payment. See Attachment 5A for quotation and Attachment 25 for further info.	Amount:	\$176,971.50	Component Description:	Antenna minus V-Pol cost 45% progress payment. See Attachment 5A for quotation and Attachment 25 for further info.	Amount:	\$176,971.50
Component Description:	Antenna minus V-Pol cost 45% down payment. See Attachment 5A for quotation and Attachment 25 for further info.								
Amount:	\$176,971.50								
Component Description:	Antenna minus V-Pol cost 45% progress payment. See Attachment 5A for quotation and Attachment 25 for further info.								
Amount:	\$176,971.50								

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	\$185,600.00	\$153,130.60		\$0.00	
Rigid Transmission Line - copper, 6 1/8" broadband	\$185,600.00	\$153,130.60	See Attachment 6, Line 2.	N/A	N/A
Primary Transmission Line	\$468,450.00	\$323,018.25		\$290,716.42	
Rigid Transmission Line - copper, 8 3/16"	\$468,450.00	\$323,018.25	1,350 feet of 8 3/16-inch 75 Ohm line. Please see Attachment 5A line 3 for quote. Length and cost reduced 19 Nov 2019.	\$290,716.42	N/A
Sub-total	\$654,050.00	\$476,148.85	N/A	\$290,716.42	N/A
Total for all systems	\$8,988,365.46	\$6,756,889.19	N/A	\$2,638,104.55	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8" broadband	Information not provided.

Rigid Transmission Line -
copper, 8 3/16"

Component Description:

Sweep testing
45% progress
payment. See
Attachment 5A for
quotation and
Attachment 25 for
further info.

Amount:

\$145,358.21

Component Description:

Transmission line
45% down
payment. See
Attachment 5A for
quotation and
Attachment 25 for
further info.

Amount:

\$145,358.21

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
Auxiliary Tower TOWER	\$657,800.00	\$312,500.00		\$3,950.00	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$12,500.00	50% of Widelity Cost Catalog pricing. Half of cost is shared with WPSG (TV).	\$3,950.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$100,000.00	50% of Widelity Cost Catalog pricing. Half of cost is shared with WPSG (TV).	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$200,000.00	50% of Widelity Cost Catalog pricing. Half of cost is shared with WPSG (TV).	N/A	N/A
Primary Tower TOWER	\$447,300.00	\$212,500.00		\$8,750.00	

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$200,000.00	50% of Widelity Cost Catalog pricing. Half of cost is shared with WPSG (TV) Facility ID 12499. Tower does not have a candelabra but is complex due to stacked antennas.	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$12,500.00	50% of Widelity Cost Catalog pricing. Half of cost is shared with WPSG (TV) Facility ID 12499. This cost increased because actual tower documentation was found to be less accurate than initially thought.	\$8,750.00	N/A
Sub-total	\$1,105,100.00	\$525,000.00	N/A	\$12,700.00	N/A
Total for all systems	\$8,988,365.46	\$6,756,889.19	N/A	\$2,638,104.55	N/A

Components

Actual Information
Description

File Name

<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<p>Component Description:</p> <p>Invoice is for a 50% Down payment. Because this expense is shared with WPSG (TV) Facility ID 12499, KYW-TV seeks reimbursement for only half of the Total Invoice Amount.</p> <p>Amount:</p> <p>\$3,950.00</p>
<p>Tall Tower (greater than 500')</p>	<p>Information not provided.</p>
<p>Major tower reinforcement /modifications</p>	<p>Information not provided.</p>
<p>Complex Tower (includes, for example, those with candelabras and/or stacked antennas)</p>	<p>Information not provided.</p>

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

Component Description:

Invoice is for a 50% final payment. Because this expense is shared with WPSG(TV) Facility ID 12499, KYW-TV seeks reimbursement for only half of the Total Invoice Amount.

Amount:

\$4,375.00

Component Description:

Invoice is for a 50% Down payment. Because this expense is shared with WPSG (TV) Facility ID 12499, KYW-TV seeks reimbursement for only half of the Total Invoice Amount.

Amount:

\$4,375.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$60,485.00	\$57,000.00		\$2,337.50	
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
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	\$1,400.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$937.50	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	Company lacks sufficient internal resources.	N/A	N/A
Sub-total	\$60,485.00	\$57,000.00	N/A	\$2,337.50	N/A
Total for all systems	\$8,988,365.46	\$6,756,889.19	N/A	\$2,638,104.55	N/A

Components

Actual Information Description	File Name
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p>Component Description:</p> <p>Prepare FCC Form 2100 CP Application, Engineering Section.</p> <p>Amount:</p> <p>\$1,400.00</p>
Perform engineering study for new channel assignment and antenna development	<p>Component Description:</p> <p>Preliminary interference study.</p> <p>Amount:</p> <p>\$937.50</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Project management of the transition	Information not provided.

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	\$901,678.00	\$895,378.00		\$339,651.20	
STL to Interim Site	<i>\$0.00</i>	\$0.00	STL equipment, including transmitters, receivers, antennas, waveguide, and frequency coordination. See Attachments 29 and 31. We were instructed by the Repack Administrator to move 100% of this cost to WPSG so \$0.00 is being requested here.	\$0.00	N/A

Interim Bldg. GC and Mech. Contractor	\$324,617.50	\$324,617.50	Interim Building General Contractor and Mechanical Subcontractor. See Attachment 14. Site is to be used by KYW-TV and WPSG so only half of the quoted cost is shown here.	\$129,847.00	N/A
Interim Bldg. Fire Detection	\$75,240.00	\$75,240.00	Interim Building Fire Detection and Suppression System. See Attachment 14. Site is to be used by KYW-TV and WPSG so only half of the quoted cost is shown here.	\$30,096.00	N/A
Interim Bldg. Electrical Contractor	\$449,270.50	\$449,270.50	Interim Building Electrical Contractor. See Attachment 14. Site is to be used by KYW-TV and WPSG so only half of the quoted cost is shown here.	\$179,708.20	N/A

FCC Filing Fee - STL	\$0.00	\$0.00	See FCC Wireless Bureau Fee Filing Guide (Attachment 16 page 19). We were instructed by the Repack Administrator to move 100% of this cost to repack station WPSG so \$0.00 is being requested for KYW-TV.	\$0.00	N/A
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
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
Local Zoning	\$5,000.00	\$5,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,250.00	N/A	N/A	N/A
Sub-total	\$901,678.00	\$895,378.00	N/A	\$339,651.20	N/A
Total for all systems	\$8,988,365.46	\$6,756,889.19	N/A	\$2,638,104.55	N/A

Components

Actual Information Description	File Name
STL to Interim Site	<div> <div>Component Description:</div> <div>Invoice is for frequency coordination of studio transmitter link. We were instructed by the Repack Administrator to move 100% of this cost to repack station WPSG so \$0.00 is being requested for KYW-TV.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
Interim Bldg. GC and Mech. Contractor	<div> <div>Component Description:</div> <div>Invoice is down payment for building General Contractor, Mech subcontractor, Elec Contractor, and Fire Detection and Suppression. This cost is GC and Mech Contractor. Site used by KYW-TV and WPSG so 50% of the quoted cost is shown here.</div> </div> <div> <div>Amount:</div> <div>\$129,847.00</div> </div>

Interim Bldg. Fire Detection	<div data-bbox="715 174 1018 208" data-label="Section-Header">Component Description:</div> <div data-bbox="1153 174 1377 763" data-label="Text"> <p>Invoice is down payment for building General Contractor, Mech subcontractor, Elec Contractor, and Fire Detection and Suppression. This cost is Fire Detection and Suppression. Site used by KYW-TV and WPSG so 50% of the quoted cost is shown here.</p> </div> <div data-bbox="715 775 820 808" data-label="Section-Header">Amount:</div> <div data-bbox="1153 775 1286 808" data-label="Text"> <p>\$30,096.00</p> </div>
Interim Bldg. Electrical Contractor	<div data-bbox="715 945 1018 978" data-label="Section-Header">Component Description:</div> <div data-bbox="1153 945 1377 1496" data-label="Text"> <p>Invoice is down payment for building General Contractor, Mech subcontractor, Elec Contractor, and Fire Detection and Suppression. This cost is Elec. Contractor. Site used by KYW-TV and WPSG so 50% of the quoted cost is shown here.</p> </div> <div data-bbox="715 1507 820 1541" data-label="Section-Header">Amount:</div> <div data-bbox="1153 1507 1299 1541" data-label="Text"> <p>\$179,708.20</p> </div>

FCC Filing Fee - STL	<p>Component Description: Invoice is for FCC License Application for studio transmitter link. We were instructed by the Repack Administrator to move 100% of this cost to repack station WPSG so \$0.00 is being requested for KYW-TV.</p> <p>Amount: N/A</p>
MVPD Notification of Channel Change	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.
Local Zoning	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$8,988,365.46	\$6,756,889.19
			\$2,638,104.55

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Andrew J Siegel <i>Assistant Secretary</i></p> <p>11/19/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> 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. 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) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Andrew J Siegel <i>Assistant Secretary</i></p> <p>11/19/2019</p>

Attachments