



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **25455** | Service: **DTV** | Call **WJZ-TV** | Channel:
ID: | Sign:
11 (High VHF) | File **0000027143**
Number:
FRN: **0021079769** | Date **04/23**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CBS TELEVISION LICENSES LLC Doing Business As: CBS TELEVISION LICENSES LLC	Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4074	dryson@cbs.com	Limited Liability Company

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	Please see attached statement.

Transmitters

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

**Auxiliary
Transmitter****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Alternate Main
	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	Platinum PTCD20P2i
	Year	2009
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8.0 kW

**Auxiliary
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	VAXTE-12
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	9.6 kW
	Justification for New Transmitter	GatesAir /Harris has stipulated that it cannot and will not attempt to retune any Platinum Series transmitters. Non- Upgraded transmitter is VAXTE-8 (Attachment 20). Proposed transmitter is VAXTE- 12 (Attachment 22).

**Auxiliary
Transmitter****Other Transmitter Costs**

Section	Question	Response
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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	2 inches
	Length	70.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other 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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Transmitter Shipping	Transmitter Shipping
State Sales Tax	6% Maryland State Sales Tax on Transmitter Hardware and Shipping

**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	Platinum PTCD20P2i
	Year	2009
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8.0 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	VAXTE-12
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	9.6 kW
	Justification for New Transmitter	GatesAir /Harris has stipulated that it cannot and will not attempt to retune any Platinum Series transmitters. Non- Upgraded transmitter is VAXTE-8 (Attachment 2A). Proposed transmitter is VAXTE-12 (Attachment 21).

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
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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	2 inches
	Length	70.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other 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
Advanced Site Survey	Site survey will determine actual site conditions and determine the materials and components required for system installation /integration of the customers site with the GatesAir Equipment. Please see Attachment 29.

Transmitter Shipping	Transmitter Shipping
State Sales Tax	6% Maryland State Sales Tax on Transmitter Hardware and Shipping

Antennas

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

**Auxiliary
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup Antenna
	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?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Middle
	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)	4.5 kW

Manufacturer	
Model	TW-9B13R
Year	1999

**Auxiliary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Backup Antenna
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	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?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	4
	Lower Limit	167.00 MHz
	Upper Limit	213.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	7.5 kW
	Manufacturer	

Model	TLS-V4BB
Year	2018
Justification for New Antenna	The existing Aux antenna is CH 13 specific and part of a stack that must be removed to install WMAR's new CH 27 antenna

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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?	Broadband
	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?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Elliptical
	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)	33.8 kW

Manufacturer	
Model	THV-9A13 /VP-R C150SP
Year	2009

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top 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)	30.0 kW
	Manufacturer	

Model	THV- 9A11 /VP-R O4
Year	2018
Justification for New Antenna	Please see attached statement and Attachment 23.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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?	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 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

Primary Antenna	Other Antenna Cost Not Listed
	Information not provided.

Transmission Line

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

Primary Transmission Line**Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1198 feet per run

Primary **Other Transmission Line Expenses Not Listed**

Transmission Line Name	Description
Additional Rigid Line	50 Feet of 6 1/8-Inch Rigid Line

Auxiliary **Existing Transmission Line**

Transmission Line Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	When main not available
	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	Dielectric
	Type	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	1176 feet per run

Auxiliary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Additional Rigid Line	50 Feet of 3 1/8-Inch Rigid Line

**Tower
Equipment
And
Rigging
Costs**

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

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	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 Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1035558
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 20' 05.0" N-
	Longitude (NAD83)	076° 39' 02.0" W-
	Overall Structure Height	997.36 feet
	Support Structure Height	889.10 feet
	Ground Elevation Above Mean Sea Level (AMSL)	318.24 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Television Tower Inc
Date Constructed	08/26/1964

**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
65696	WBAL-TV	DTV
65693	WIYY	FM
74196	WWMX	FM
1916	WJZ-FM	FM
28637	WLIF	FM
59442	WMAR-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 tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor 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
Candelabra Mapping	Field mapping of candelabra to be used in Structural Analysis.
Antenna Pedestal and Mount	Main Antenna Pedestal and Interim Antenna Mount (see Attachment 9).

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Lack of in-house 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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	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	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	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
	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
Primary Transmitter VAXTE-12	\$365,673.88	\$253,820.92		\$88,814.57	
State Sales Tax	<i>\$11,861.66</i>	\$11,861.66	6% Sales Tax on Attachment 2A Items A-D and estimated transmitter shipping.	N/A	N/A
Transmitter Shipping	<i>\$4,500.00</i>	\$4,500.00	Estimated Transmitter Shipping	N/A	N/A
Advanced Site Survey	<i>\$15,992.22</i>	\$15,992.22	Per Quote from GatesAir. Please see Attachment 29.	\$15,992.22	N/A
High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	\$331,500.00	\$218,467.04	Please see Attachment 2A. Includes costs for installation, shipping, and old transmitter disconnection. Shipping and Sales Tax Listed Separately.	\$72,822.35	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$1,820.00	\$3,000.00	Please see attached statement.	N/A	N/A

Auxiliary Transmitter VAXTE-12	\$348,254.67	\$212,618.48		\$64,894.60	
2" Rigid Conduit and Wiring (Cost per foot)	\$1,820.00	\$3,000.00	Please see attached statement.	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	\$331,500.00	\$194,683.81	Please see Attachment 20. Includes costs for installation, shipping, and old transmitter disconnection. Shipping and Sales Tax Listed Separately.	\$64,894.60	N/A
Transmitter Shipping	\$4,500.00	\$4,500.00	Estimated Transmitter Shipping	N/A	N/A
State Sales Tax	\$10,434.67	\$10,434.67	6% Sales Tax on Attachment 20 Items A-D and estimated transmitter shipping.	N/A	N/A
Sub-total	\$713,928.55	\$466,439.40	N/A	\$153,709.17	N/A
Total for all systems	\$1,963,001.55	\$1,576,089.40	N/A	\$434,249.19	N/A

Components

Actual Information Description	File Name
State Sales Tax	Information not provided.
Transmitter Shipping	Information not provided.

Advanced Site Survey	<p>Component Description: Transmitter Site Survey. See quote provided in Attachment 29.</p> <p>Amount: \$15,992.22</p>
High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	<p>Component Description: Primary Transmitter Down Payment. Also Includes RF Accessories, Electrical, Installation, and Removal. Seeking reimbursement cost for non-upgraded VAXTE-8 Transmitter not upgraded VAXTE-12 Transmitter. Both shown in Attachment 24B.</p> <p>Amount: \$72,822.35</p>
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	<p>Component Description:</p> <p>Interim Transmitter Down Payment. Also Includes RF Accessories, Electrical, Installation, and Removal. Seeking reimbursement cost for non- upgraded VAXTE-8 Transmitter not upgraded VAXTE- 12 Transmitter. Both shown in Attachment 25A.</p> <p>Amount:</p> <p>\$64,894.60</p>
Transmitter Shipping	Information not provided.
State Sales Tax	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
Primary Antenna THV- 9A11 /VP-R 04	\$347,758.00	\$347,428.00		\$156,342.60	
High VHF - High Power Top Mount One Station elliptically or circularly polarized	<i>\$341,028.00</i>	\$341,028.00	See Attachment 23. 3/21 /2019 Note: Sweep Test listed separately so deducted from cost shown here.	\$153,462.60	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
Auxiliary Antenna TLS-V4BB	\$98,750.00	\$96,810.00		\$54,650.52	
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, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$8,880.00	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 elliptically or circularly polarized	\$59,530.00	\$59,530.00	N/A	\$54,650.52	N/A
Sub-total	\$446,508.00	\$444,238.00	N/A	\$210,993.12	N/A
Total for all systems	\$1,963,001.55	\$1,576,089.40	N/A	\$434,249.19	N/A

Components

Actual Information		
Description	File Name	
High VHF - High Power Top Mount One Station elliptically or circularly polarized	Component Description: Amount:	Down Payment for Primary Antenna, Elbows, Line. See Attachment 23 for quote. \$153,462.60

Sweep test of existing antenna	<p>Component Description:</p> <p>Down Payment for Sweep Test. See Attachment 23 for quote.</p> <p>Amount:</p> <p>\$2,880.00</p>
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, 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 elliptically or circularly polarized	<p>Component Description:</p> <p>Interim Antenna - 45% Down payment</p> <p>Amount:</p> <p>\$27,325.26</p> <p>Component Description:</p> <p>Interim Antenna 45% payment prior to shipment.</p> <p>Amount:</p> <p>\$27,325.26</p>

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
Primary Transmission Line	\$11,050.00	\$11,050.00		\$0.00	
Additional Rigid Line	<i>\$11,050.00</i>	\$11,050.00	N/A	N/A	N/A
Auxiliary Transmission Line	\$5,700.00	\$5,700.00		\$0.00	
Additional Rigid Line	<i>\$5,700.00</i>	\$5,700.00	N/A	N/A	N/A
Sub-total	\$16,750.00	\$16,750.00	N/A	\$0.00	N/A
Total for all systems	\$1,963,001.55	\$1,576,089.40	N/A	\$434,249.19	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	\$678,700.00	\$553,267.00		\$66,471.90	
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$23,567.00	Estimated cost includes WJZ-TV's pro rata share shown in Attachments 7, 26, 37, 38, and 39.	\$23,100.00	Changes to primary antenna pedestal heights and auxiliary (interim) antenna mounting configuration required additional analysis and reinforcement designs.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	It is believed that 100% of the Widelity Cost Catalog estimate is justifiable. Please see Statement.	\$41,371.90	N/A

Minor tower reinforcement /modifications	\$158,000.00	\$50,000.00	1/3 of Widelity Cost Catalog estimate, WJZ-TV's pro-rata amount after sharing expenses with two other repacking DTV stations.	N/A	N/A
Antenna Pedestal and Mount	\$77,700.00	\$77,700.00	Main antenna pedestal (required to maintain overall FAA /FCC tower height) and auxiliary antenna mount. See Attachment 9.	N/A	N/A
Candelabra Mapping	\$2,000.00	\$2,000.00	Please see Attachment 6. This is the WJZ-TV pro-rata anticipated cost after costs are shared with two other repacking DTV stations.	\$2,000.00	N/A
Sub-total	\$678,700.00	\$553,267.00	N/A	\$66,471.90	N/A
Total for all systems	\$1,963,001.55	\$1,576,089.40	N/A	\$434,249.19	N/A

Components

Actual Information**Description****File Name**

Structural engineering tower load study for a documented tower with candelabra

Component Description:

Update structural design to incorporate revised pedestal heights. This is WBZ-TV's cost only. Other stations billed separately.

Amount:

\$2,000.00

Component Description:

Design Aux Antenna Mounts and Structural Modifications. See Attachment 7 for quote. This invoice (along with Attachment 32) reflects only the WJZ-TV portion. Other tower tenants were billed separately.

Amount:

\$9,200.00

Component Description:

Structural Analysis of Final Loading Scenario. See quote Attachment 39.

Amount:

\$3,000.00

Component Description:

Structural Analysis of WJZ-TV Primary tower. This invoice reflects only the WJZ-TV portion. Other tower tenants were billed separately.

Amount:

\$4,000.00

	<table> <tr> <td data-bbox="699 87 1114 555"> <p>Component Description:</p> </td><td data-bbox="1114 87 1426 555"> <p>Structural Study - Evaluates Existing (Pretransition) Antennas Plus New Auxiliary /Interim Antennas. Cost is WJZ-TV's Portion Only.</p> </td></tr> <tr> <td data-bbox="699 555 1114 1115"> <p>Amount:</p> </td><td data-bbox="1114 555 1426 1115"> <p>\$1,200.00</p> </td></tr> <tr> <td data-bbox="699 1115 1114 1585"> <p>Component Description:</p> </td><td data-bbox="1114 1115 1426 1585"> <p>Tower structural reanalysis following change in antenna specifications. This cost is 100% attributable to WJZ-TV and not shared with other stations. See also Attachment 26.</p> </td></tr> <tr> <td data-bbox="699 1585 1114 2134"> <p>Amount:</p> </td><td data-bbox="1114 1585 1426 2134"> <p>\$3,700.00</p> </td></tr> </table>	<p>Component Description:</p>	<p>Structural Study - Evaluates Existing (Pretransition) Antennas Plus New Auxiliary /Interim Antennas. Cost is WJZ-TV's Portion Only.</p>	<p>Amount:</p>	<p>\$1,200.00</p>	<p>Component Description:</p>	<p>Tower structural reanalysis following change in antenna specifications. This cost is 100% attributable to WJZ-TV and not shared with other stations. See also Attachment 26.</p>	<p>Amount:</p>	<p>\$3,700.00</p>
<p>Component Description:</p>	<p>Structural Study - Evaluates Existing (Pretransition) Antennas Plus New Auxiliary /Interim Antennas. Cost is WJZ-TV's Portion Only.</p>								
<p>Amount:</p>	<p>\$1,200.00</p>								
<p>Component Description:</p>	<p>Tower structural reanalysis following change in antenna specifications. This cost is 100% attributable to WJZ-TV and not shared with other stations. See also Attachment 26.</p>								
<p>Amount:</p>	<p>\$3,700.00</p>								
<p>Complex Tower (includes, for example, those with candelabras and/or stacked antennas)</p>	<table> <tr> <td data-bbox="699 1144 1114 1451"> <p>Component Description:</p> </td><td data-bbox="1114 1144 1426 1451"> <p>Down payment for Aux/Interim Antenna Installation. See Quote and Invoice in Attachment 28A.</p> </td></tr> <tr> <td data-bbox="699 1451 1114 2134"> <p>Amount:</p> </td><td data-bbox="1114 1451 1426 2134"> <p>\$39,851.00</p> </td></tr> </table>	<p>Component Description:</p>	<p>Down payment for Aux/Interim Antenna Installation. See Quote and Invoice in Attachment 28A.</p>	<p>Amount:</p>	<p>\$39,851.00</p>				
<p>Component Description:</p>	<p>Down payment for Aux/Interim Antenna Installation. See Quote and Invoice in Attachment 28A.</p>								
<p>Amount:</p>	<p>\$39,851.00</p>								

	<p>Component Description:</p> <p>Participate in rigging logistics land use agreement review, permitting analysis, and aerial lift support. This amount is WJZ-TV's expense. Other stations were billed separately.</p> <p>Amount:</p> <p>\$1,000.00</p>
	<p>Component Description:</p> <p>Travel Expenses - Rigging Logistics Meeting. This amount is WJZ-TV's expense. Other stations were billed separately.</p> <p>Amount:</p> <p>\$220.90</p>
	<p>Component Description:</p> <p>Participate in rigging logistics land use agreement review, permitting analysis, and aerial lift support. This amount is WJZ-TV's expense. Other stations were billed separately.</p> <p>Amount:</p> <p>\$300.00</p>
Minor tower reinforcement /modifications	Information not provided.
Antenna Pedestal and Mount	Information not provided.

Candelabra Mapping

Component Description:

Structural Mapping
of WJZ-TV Primary
tower. This invoice
reflects only the
WJZ-TV portion.
Other tower
tenants were billed
separately.

Amount:

\$2,000.00

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	\$62,120.00	\$57,000.00		\$3,075.00	
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$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

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Project management of the transition	\$39,500.00	\$37,500.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$5,000.00	N/A	\$1,700.00	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
Sub-total	\$62,120.00	\$57,000.00	N/A	\$3,075.00	N/A
Total for all systems	\$1,963,001.55	\$1,576,089.40	N/A	\$434,249.19	N/A

Components

Actual Information	
Description	File Name
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Project management of the transition	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Perform engineering study for new channel assignment and antenna development	<div> Component Description: Preliminary interference study to determine appropriate ERP at two elevations. </div> <div> Amount: \$950.00 </div> <div> Component Description: Repeat channel interference study using revised version of FCC OET TVStudy Software. </div> <div> Amount: \$750.00 </div>

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepare Engineering Section of 90-day FCC Application for Construction Permit. \$1,375.00
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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	\$44,995.00	\$38,395.00		\$0.00	
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)	\$6,000.00	\$6,000.00	N/A	N/A	N/A
Non-zoning permits	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Local Zoning	\$5,000.00	\$5,000.00	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

FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$44,995.00	\$38,395.00	N/A	\$0.00	N/A
Total for all systems	\$1,963,001.55	\$1,576,089.40	N/A	\$434,249.19	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$1,963,001.55	\$1,576,089.40
			\$434,249.19

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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>04/23/2019</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>04/23/2019</p>

Attachments