



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **36504** | Service: **DTV** | Call **WTVF** | Channel: **36 (UHF)** |  
ID: | Sign:  
File **0000027250**  
Number:  
FRN: **0002710192** | Date **06/16**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>SCRIPPS BROADCASTING HOLDINGS LLC</b> Doing Business As: SCRIPPS BROADCASTING HOLDINGS LLC	David Giles C/O SCRIPPS MEDIA, INC. 312 WALNUT ST., 28TH FLOOR CINCINNATI, OH 45202 United States	+1 (513) 977- 3000	DAVE. GILES@SCRIPPS. 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
<b>Ray Thurber</b> <i>Vice President Engineering</i> <b>SCRIPPS BROADCASTING HOLDINGS LLC</b>	Ray Thurber 312 Walnut St. Cincinnati, OH 45202 United States	+1 (248) 827- 9202	ray. thurber@scripps. com

**Broadcaster  
Information  
and  
Transition  
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	WTVF must replace its main antenna and transmitter in order to move it its new channel. It will need to install interim facilities in order to be able to replace the main facility. See attached narrative for a more detailed explanation.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DCX-2
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	ULXTE-100
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	70 kW
	Justification for New Transmitter	Current transmitter is no longer supported by the manufacturer except for maintenance. Available parts are in very limited supply and in some cases are no longer available. Manufacturer says it cannot be re-tuned.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes

	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
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**Ice Bridge and Concrete Pad**

Concrete pad needed for new transmitter heat exchangers and ice bridge to cover them.

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**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	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)	1000.0 kW



Manufacturer	
Model	ATW24HS3- ETOX-25H
Year	2012

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?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	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) .....	1000.0 kW
	Manufacturer	

Model	ATW24HS3-ETO-36H
Year	2019
Justification for New Antenna	Existing main antenna is a coaxial slot antenna that is channel specific and cannot be reused on the new channel. Though this equipment is upgraded, the upgraded equipment is less expensive than the like-for-like equipment that WTVF is entitled to install

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Primary Antenna

### Other Antenna Cost Not Listed

Name	Description
<b>Tennessee Sales Tax</b>	Tennessee Sales Tax for Antenna
<b>Primary Antenna- Road Repairs</b>	Road Repairs necessary for the primary antenna to be delivered

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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) .....	1000.0 kW
	Manufacturer	
	Model	ATW16H3- HSOX-36H
	Year	2019

	Justification for New Antenna	WTVF needs to provide service from an interim antenna while replacing the main antenna for the new channel.
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**Interim  
Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	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
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	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	1170 feet per run



**Primary  
Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1170 feet per run
	Justification for New Transmission Line	Larger transmission line is needed due to the change in power handling capability as a result of the channel change. There is not enough headroom in 6-1/8" line on the new channel.

Primary  
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Tennessee Sales Tax	Tennessee Sales Tax for Transmission Line
Transmission Line System Design and Survey	Needed to determine the exact length of the line, the type and number of hangers and obstruction avoidance.

**Interim**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	780 feet per run
	Justification for New Transmission Line	WTVF needs to provide service from an interim antenna while replacing the main antenna for the new channel. It will need new transmission line to do that.

**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

**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	Owned
	Is this tower consider Complex?	
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	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	1041373
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 16' 05.0" N-
	Longitude (NAD83)	086° 47' 16.0" W-
	Overall Structure Height	1178.14 feet
	Support Structure Height	1011.80 feet
	Ground Elevation Above Mean Sea Level (AMSL)	869.08 feet

Structure Type	LTOWER - Lattice Tower
Tower Owner	NewsChannel 5 Network, LLC
Date Constructed	11/01/2012

**Primary  
Tower**

**Tower Modification Costs**

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
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	Other
Helicopter Services Required	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Name	Description
Tennessee Sales Tax	Tennessee Sales Tax for Rigging and Tower Equipment

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	Project manager needed to manage all work at transmitter site required to transition to new channel (both the main and interim facilities). With the size of the current engineering staff, WTVF cannot spare personnel to ensure these tasks are completed.
<b>Outside RF consulting Engineering Services</b>	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	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
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No

RF exposure measurements	Yes
Additional Field Engineering Service	No
Number of Days	N/A
Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Site Survey	GatesAir performed a site survey to access changes to facility as necessary to transition to new channel including, power and HVAC requirements, available transmitter room space and existing antenna and transmission line RF characteristics at new channel.
Tennessee Sales Tax	Tennessee Sales Tax on Professional Serivces



## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
<b>Employee Time</b>	Time needed by Scripps corporate and WTVF employees to work on the transition to a new channel.
<b>Tennessee Sales Tax</b>	Tennessee Sales Tax on Other Expenses
<b>In-Building Deconstruction</b>	Work necessary to disassemble and remove existing transmitter, beam supplies, step starts, heat exchangers and mask filter.

## 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
<b>Primary Transmitter ULXTE-100</b>	<b>\$2,693,465.66</b>	<b>\$1,980,848.04</b>		<b>\$1,676,641.97</b>	
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$1,322,669.38	See attached WTVF Primary Transmitter Revision Justification Cover Letter, less amount already reimbursed toward this category.	\$1,122,724.31	N/A
25 Ton system	\$91,500.00	\$57,113.00	See attached justification for the HVAC unit.	\$30,000.00	N/A
Ice Bridge and Concrete Pad	<b>\$28,548.00</b>	\$28,548.00	N/A	\$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 62.9 kW	<b>\$523,917.66</b>	\$523,917.66	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$523,917.66	N/A

Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$0.00	N/A
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	<b>\$12,300.00</b>	\$12,300.00	N/A	\$0.00	N/A
<b>Sub-total</b>	\$2,693,465.66	\$1,980,848.04	N/A	\$1,676,641.97	N/A
<b>Total for all systems</b>	\$4,922,617.75	\$3,991,855.13	N/A	\$2,663,227.42	N/A

## Components

Actual Information		
Description	File Name	
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	<b>Component Description:</b>	ULXTE-100 Transmitter
	<b>Amount:</b>	\$39,432.21
	<b>Component Description:</b>	Transmitter
	<b>Amount:</b>	\$464,752.95
	<b>Component Description:</b>	ULXTE-100
	<b>Amount:</b>	\$114,533.49
	<b>Component Description:</b>	A. Transmitter
	<b>Amount:</b>	\$504,005.66

25 Ton system	<div> <div><b>Component Description:</b></div> <div>HVAC unit for transmitter site</div> <div><b>Amount:</b></div> <div>\$30,000.00</div> </div>
Ice Bridge and Concrete Pad	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 62.9 kW	<div> <div><b>Component Description:</b></div> <div>SNMP Manager for V5 ARC Plus Touch</div> <div><b>Amount:</b></div> <div>\$539.00</div> </div> <div> <div><b>Component Description:</b></div> <div>Gates Air WTVF Transmitter 1st installment. Per the note upon review, we are requesting 1 /3rd of the \$1,495,951.98.</div> <div><b>Amount:</b></div> <div>\$498,650.66</div> </div> <div> <div><b>Component Description:</b></div> <div>In accordance with our quotation dated July 12, 2018</div> <div><b>Amount:</b></div> <div>\$24,728.00</div> </div>
Switchgear - industrial 800 amp	Information not provided.
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	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
<b>Interim Antenna ATW16H3-HSOX-36H</b>	<b>\$210,140.00</b>	<b>\$194,500.00</b>		<b>\$175,265.00</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$3,500.00	Please see WTVF Pattern Scatter Analysis Revision Justification Cover Letter	\$3,500.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$9,600.00	Please see attached ERI Proposal 20170627-949	\$8,640.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,625.00	N/A

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	<b>\$17,500.00</b>	\$17,500.00	Please see attached ERI Proposal 20170627-949 as well as amounts already paid toward this category	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	<b>\$52,500.00</b>	\$52,500.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see attached ERI Proposal 20170627-949	\$52,500.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	<b>\$105,000.00</b>	\$105,000.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see attached ERI Proposal 20170627-949	\$105,000.00	N/A
<b>Primary Antenna ATW24HS3-ETO-36H</b>	<b>\$383,089.00</b>	<b>\$299,619.00</b>		<b>\$127,566.00</b>	

Primary Antenna-Road Repairs	<b>\$38,500.00</b>	\$38,500.00	Please see James Moseley DBA J C Paving Estimate #09132018	\$0.00	N/A
Tennessee Sales Tax	<b>\$48,359.00</b>	\$48,359.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,750.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$206,360.00	Please see attached ERI Proposal 20180123-853 Rev B	\$123,816.00	N/A
<b>Sub-total</b>	\$593,229.00	\$494,119.00	N/A	\$302,831.00	N/A
<b>Total for all systems</b>	\$4,922,617.75	\$3,991,855.13	N/A	\$2,663,227.42	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)	<p><b>Component Description:</b> ANTENNA SCATTERING STUDY</p> <p><b>Amount:</b> \$3,500.00</p>



Side mount brackets for high power antennas (if not included in antenna base cost)	<div> <b>Component Description:</b> WTVF-28-Interim Antenna - Side Mount Brackets (Custom)         </div> <div> <b>Amount:</b> \$2,880.00         </div>
	<div> <b>Component Description:</b> WTVF-280-Interim Antenna - Side Mount Brackets (Custom)         </div> <div> <b>Amount:</b> \$2,880.00         </div>
	<div> <b>Component Description:</b> WTVF-280-Interim Antenna - Side Mount Brackets (Custom)         </div> <div> <b>Amount:</b> \$2,880.00         </div>
Sweep test of existing antenna	<div> <b>Component Description:</b> WTVF-280-Interim Antenna - Sweep Test         </div> <div> <b>Amount:</b> \$1,875.00         </div>
	<div> <b>Component Description:</b> WTVF-280-Interim Antenna - Sweep Test         </div> <div> <b>Amount:</b> \$1,875.00         </div>
	<div> <b>Component Description:</b> WTVF-280-Interim Antenna - Sweep Test         </div> <div> <b>Amount:</b> \$1,875.00         </div>
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	Information not provided.

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	<b>Component Description:</b> Interim Antenna System ATW16H3-HSOX-36H <b>Amount:</b> \$52,500.00
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	<b>Component Description:</b> ATW16H3-HSOX-36H <b>Amount:</b> \$52,500.00  <b>Component Description:</b> ATW16H3-HSOX-36H <b>Amount:</b> \$52,500.00
Primary Antenna- Road Repairs	<b>Component Description:</b> PAVING PROJECT <b>Amount:</b> \$38,500.00
Tennessee Sales Tax	Information not provided.
Sweep test of existing antenna	<b>Component Description:</b> WTVF-210-Primary Antenna - Sweep Test <b>Amount:</b> \$1,875.00  <b>Component Description:</b> WTVF-210-Primary Antenna - Sweep Test <b>Amount:</b> \$1,875.00

UHF - High Power Top  
Mount (200-1000 kW), One  
station antenna , elliptically  
or circularly polarized

**Component Description:**

ANTENNA  
ATW24HS3-ETO-  
36H

**Amount:**

\$61,908.00

**Component Description:**

Antenna and  
Installation

**Amount:**

\$61,908.00

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	\$157,560.00	\$167,040.00		\$107,382.23	
Rigid Transmission Line - copper, 6 1/8"	\$157,560.00	\$167,040.00	N/A	\$107,382.23	N/A
Primary Transmission Line	\$394,181.00	\$377,801.00		\$195,544.93	
Rigid Transmission Line - copper, 7 3/16"	\$339,300.00	\$322,920.00	N/A	\$195,544.93	N/A
Transmission Line System Design and Survey	\$8,750.00	\$8,750.00	N/A	N/A	N/A
Tennessee Sales Tax	\$46,131.00	\$46,131.00	N/A	N/A	N/A
Sub-total	\$551,741.00	\$544,841.00	N/A	\$302,927.16	N/A
Total for all systems	\$4,922,617.75	\$3,991,855.13	N/A	\$2,663,227.42	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line -  
copper, 6 1/8"

**Component Description:** WTVF-380-Interim  
Transmission Line  
- 6 1/8" Rigid  
Copper  
**Amount:** \$35,539.63

**Component Description:** WTVF-380-Interim  
Transmission Line  
- 6 1/8" Rigid  
Copper  
**Amount:** \$35,539.63

**Component Description:** WTVF-380-Interim  
Transmission Line  
- 6 1/8" Rigid  
Copper  
**Amount:** \$34,301.18

**Component Description:** MACXLINE 6 1/8"  
75 OHM CUSTOM  
SECTION  
**Amount:** \$2,001.79

Rigid Transmission Line - copper, 7 3/16"	<div> <b>Component Description:</b> WTVF-310- Primary Transmission Line - 7 3/16" Rigid Copper         </div> <div> <b>Amount:</b> \$90,429.61         </div>
	<div> <b>Component Description:</b> FREIGHT COST         </div> <div> <b>Amount:</b> \$11,088.54         </div>
	<div> <b>Component Description:</b> FREIGHT COSTS         </div> <div> <b>Amount:</b> \$3,597.17         </div>
	<div> <b>Component Description:</b> WTVF-310- Primary Transmission Line - 7 3/16" Rigid Copper         </div> <div> <b>Amount:</b> \$90,429.61         </div>
Transmission Line System Design and Survey	Information not provided.
Tennessee Sales Tax	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 LTOWER	\$633,958.00	\$521,463.00		\$310,794.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$317,105.00	Rigging for main and interim antennas and transmission lines. Please see attached ERI Proposal 20180123-853 Rev B	\$275,559.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$35,235.00	N/A
Tennessee Sales Tax	<i>\$42,358.00</i>	\$42,358.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	N/A	N/A
Sub-total	\$633,958.00	\$521,463.00	N/A	\$310,794.00	N/A
Total for all systems	\$4,922,617.75	\$3,991,855.13	N/A	\$2,663,227.42	N/A

Components

Actual Information Description	File Name
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Complex Tower (includes, for example, those with candelabras and/or stacked antennas)

<b>Component Description:</b>	WTVF-410- Existing Primary Tower - Tower Rigging, Complex Tower
<b>Amount:</b>	\$20,001.30

<b>Component Description:</b>	WTVF-410- Existing Primary Tower - Tower Rigging, Complex Tower
<b>Amount:</b>	\$20,001.30

<b>Component Description:</b>	WTVF-410- Existing Primary Tower - Tower Rigging, Complex Tower
<b>Amount:</b>	\$20,001.30

<b>Component Description:</b>	WTVF-410- Existing Primary Tower - Tower Rigging, Complex Tower
<b>Amount:</b>	\$95,131.50

<b>Component Description:</b>	Tree Pruning
<b>Amount:</b>	\$6,300.00

<b>Component Description:</b>	RF Installation
<b>Amount:</b>	\$1,442.10

<b>Component Description:</b>	Weather day
<b>Amount:</b>	\$17,550.00



	<p><b>Component Description:</b> WTVF-410-Existing Primary Tower - Tower Rigging, Complex Tower</p> <p><b>Amount:</b> \$95,131.50</p>
Minor tower reinforcement /modifications	<p><b>Component Description:</b> WTVF-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications</p> <p><b>Amount:</b> \$11,745.00</p> <p><b>Component Description:</b> WTVF-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications</p> <p><b>Amount:</b> \$11,745.00</p> <p><b>Component Description:</b> WTVF-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications</p> <p><b>Amount:</b> \$11,745.00</p>
Tennessee Sales Tax	Information not provided.
Structural engineering tower load study for well documented tower	Information not provided.

## Cost Information

### Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$176,048.88</b>	<b>\$176,973.88</b>		<b>\$56,331.88</b>	
Tennessee Sales Tax	<i>\$9,172.00</i>	\$9,172.00	N/A	N/A	N/A
Site Survey	<i>\$19,001.88</i>	\$19,001.88	Please see Estimated Cost Justification WTVF-590-Site Survey v0	\$19,001.88	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,125.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$150.00	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$94,010.00	\$99,675.00	Widely Strategic Quote	\$35,305.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$150.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$225.00	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$375.00	Please see WTVF Aux Construction Permit Application Revision Justification Cover Letter	\$375.00	N/A
<b>Sub-total</b>	\$176,048.88	\$176,973.88	N/A	\$56,331.88	N/A
<b>Total for all systems</b>	\$4,922,617.75	\$3,991,855.13	N/A	\$2,663,227.42	N/A

## Components

Actual Information	
Description	File Name
Tennessee Sales Tax	Information not provided.
Site Survey	<p><b>Component Description:</b> FIELD SERVICE, TV</p> <p><b>Amount:</b> \$19,001.88</p>
RF Exposure Measurements	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>		WTVF-530-RF
			Eng - Engineering
			Study for New
			Channel
			Assignment
	<b>Amount:</b>		\$150.00
	<b>Component Description:</b>		WTVF-530-RF
			Eng - Engineering
			Study for New
			Channel
			Assignment
	<b>Amount:</b>		\$225.00
	<b>Component Description:</b>		Status Call
	<b>Amount:</b>		\$750.00
Address transition timing and coordination issues w/ other stations and wireless	<b>Component Description:</b>		Call to Discuss
			Linking Stations
			Issue
	<b>Amount:</b>		\$150.00
Prepare and or review reimbursement form	Information not provided.		
Project management of the transition	<b>Component Description:</b>		Professional
			Services
	<b>Amount:</b>		\$150.00
	<b>Component Description:</b>		FCC Repack
	<b>Amount:</b>		\$150.00
	<b>Component Description:</b>		Project
			Management
	<b>Amount:</b>		\$329.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,691.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$232.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,575.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,855.20

<b>Component Description:</b>	WTVF-510-Project Management
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$93.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$64.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,642.70

<b>Component Description:</b>	FCC Repack
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Professional Services
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,539.70

<b>Component Description:</b>	Professional Services
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,617.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$7,274.70

<b>Component Description:</b>	WTVF-510-Project Management
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,479.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,008.30

<b>Component Description:</b>	FCC Repack
<b>Amount:</b>	\$150.00

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Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	<p><b>Component Description:</b> WTVF-530-RF Eng - Special Temporary Authorization</p> <p><b>Amount:</b> \$150.00</p>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<p><b>Component Description:</b> FCC Repack</p> <p><b>Amount:</b> \$225.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p><b>Component Description:</b> WTVF-530-RF Eng - Construction Permit Application (Auxiliary)</p> <p><b>Amount:</b> \$375.00</p>



## 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
<b>Other Expenses</b>	<b>\$274,175.21</b>	<b>\$273,610.21</b>		<b>\$13,701.41</b>	
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,644.80	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	\$500.00	N/A
MVPD Notification of Channel Change	<i>\$3,072.61</i>	\$3,072.61	see Estimated Cost Justification WTVF-610-MVPD Notifications v0	\$3,072.61	N/A
In-Building Deconstruction	<i>\$25,000.00</i>	\$25,000.00	N/A	\$4,300.00	N/A
Tennessee Sales Tax	<i>\$9,805.00</i>	\$9,805.00	N/A	N/A	N/A
Employee Time	<i>\$124,217.60</i>	\$124,217.60	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$2,184.00	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$25,000.00</b>	\$25,000.00	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
<b>Sub-total</b>	\$274,175.21	\$273,610.21	N/A	\$13,701.41	N/A
<b>Total for all systems</b>	\$4,922,617.75	\$3,991,855.13	N/A	\$2,663,227.42	N/A

## Components

Actual Information	
Description	File Name
DTV Medical Facility Notification	<b>Component Description:</b> Notification of Medical Facilities <b>Amount:</b> \$3,644.80
Non-zoning permits	<b>Component Description:</b> Scope of Services: <b>Amount:</b> \$500.00
MVPD Notification of Channel Change	<b>Component Description:</b> MVPD Notification Services <b>Amount:</b> \$3,072.61

In-Building Deconstruction	<div> <div>Component Description:</div> <div>Permitting Submittal Package</div> <div>Amount:</div> <div>\$4,300.00</div> </div>
Tennessee Sales Tax	Information not provided.
Employee Time	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	<div> <div>Component Description:</div> <div>Unload (1) 53' Trailer</div> <div>Amount:</div> <div>\$2,184.00</div> </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,922,617.75	\$3,991,855.13	\$2,663,227.42

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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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><b>Sravan Reddy , Reddy .</b>  <i>Senior Director, General Accounting</i></p> <p>06/16/2020</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"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	



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><b> Sravan Reddy , Reddy .</b>  <i> Senior Director, General Accounting</i></p> <p>06/16/2020</p>

## Attachments