

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

36504 Service: DTV Channel: 36 (UHF) Facility Call Sign:

ID:

File 0000027250

Number:

FRN: **0002710192** Date 04/20

> Submitted: /2021

#### **Applicant** Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### **Preparer Contact** Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email
Ray Thurber Vice President Engineering SCRIPPS BROADCASTING HOLDINGS LLC	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
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	DCX-2
	Year	2001
	Туре	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-120
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	75 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)	Yes
	Power	300 kVA
	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.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	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 leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

### Primary Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description	
------	-------------	--

Ice	Bridge	and	Concrete	Pad

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

#### **Antennas**

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

#### **Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Elliptical
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	ATW24HS3- ETOX-25H
Year	2012

#### **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?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Elliptical
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	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

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
		·

	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	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?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

#### **Other Antenna Cost Not Listed**

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

#### 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?	No
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	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.

#### 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 <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission Line

#### **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1170 feet per run

#### **New Transmission Line**

# Primary Transmission Line

New Transmission Line
Costs

Question	Response
Use	Primary (Main)
Description of Use	N/A
Change Type	Purchase New
Is this a request for upgraded equipment?	No
Туре	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

# Other Transmission Line Expenses Not Listed

on Line	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.

#### **New Transmission Line**

Interim
<b>Transm</b>

smissio	n Line Section	Question	Response
New Transmission Line Costs		Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	6 1/8 inches
		Segment Length	20'
		Other Segment Length	
		Number of parallel runs	1
		Length	780 feet per
		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 Other Transmission Line Expenses Not Listed

Transmission loine tion 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	Do you have a tower registration number?	Yes
Structure Registration	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

Section	Question	Response
Services Costs Outside Project  Management Services	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.
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	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	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
RF Field Engineering Services	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

# Other Professional Services Expenses Not Listed

Services Costs	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
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	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
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD  Notification of a Channel Change?	Yes

# Other Expenses

# Other Expenses Not Listed

Name	Description
Digital Translator Antenna Dismantle and Install	Digital Translator Antenna Dismantle and Install
Employee Time	Time needed by Scripps corporate and WTVF employees to work on the transition to a new channel.
In-Building Deconstruction	Work necessary to disassemble and remove existing transmitter, beam supplies, step starts, heat exchangers and mask filter.
Tennessee Sales Tax	Tennessee Sales Tax on Other Expenses
VSWR Sweep of the Operating Channels	VSWR Sweep of the Operating Channels

# **Cost Information**

#### **Transmitters**

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

Description Primary Transmitter ULXTE-120	Predetermined Cost Estimate \$2,767,421.66	Estimated Cost \$2,337,796.65	Estimated Cost Justification	Actual Cost \$1,661,937.76	Actual Cost Justification
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	\$49,456.00	\$49,456.00	see Estimated Cost Justification WTVF-110- 1st Primary Transmitter - Other Electrical Service v0	\$14,841.50	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$9,886.50	Please see E.W. Scripps WTVF PowerTek LLC REVISED 20180712 Transformer Budget Revision and Cost Breakdown and associated allocation	\$9,886.50	N/A
Ice Bridge and Concrete Pad	\$28,548.00	\$28,548.00	N/A	\$0.00	N/A

Liquid   Cooled   Solid State   Transmitter   62.9 kW						
Liquid Cooled Solid State Transmitter 68.5 - 75 kW  Switchgear \$38,200.00 \$0.00 included in cost - industrial 800 amp  Solid State  25 Ton system  Sub-total \$2,767,421.66 \$2,337,796.65 N/A \$1,661,937.76 N/A	Liquid Cooled Solid State Transmitter	\$523,917.66	\$523,917.66	Notice: Estimate adjusted and locked because line has been superseded.	\$523,917.66	N/A
- industrial 800 amp Electrical Service estimated cost  25 Ton \$91,500.00 \$57,113.00 See \$30,000.00 N// system attached justification for the HVAC unit.  Sub-total \$2,767,421.66 \$2,337,796.65 N/A \$1,661,937.76 N// system	Liquid Cooled Solid State Transmitter	\$1,999,000.00	\$1,668,875.49	Cost Justification WTVF-110- 1st Primary Transmitter - UHF Liquid Cooled Solid State, 68.5 -75 kW	\$1,083,292.10	N/A
system attached justification for the HVAC unit.  Sub-total \$2,767,421.66 \$2,337,796.65 N/A \$1,661,937.76 N/A	- industrial	\$38,200.00	\$0.00	Other Electrical Service estimated	\$0.00	N/A
		\$91,500.00	\$57,113.00	attached justification for the	\$30,000.00	N/A
Total for all \$4.882.880.41 \$4.493.317.57 N/A \$3.319.602.97 N/A	Sub-total	\$2,767,421.66	\$2,337,796.65	N/A	\$1,661,937.76	N/A
systems	Total for all systems	\$4,882,880.41	\$4,493,317.57	N/A	\$3,319,602.97	N/A

# Components

Actual Information	
Description	File Name

Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	Component Description: Amount:	Electrical Service \$14,841.50
Transformer 3 phase/480v - 300 KVA	Component Description: Amount:	Transformer \$9,886.50
Ice Bridge and Concrete Pad	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 62.9 kW	Component Description:  Amount:	Gates Air WTVF Transmitter 1st installment. Per the note upon review, we are requesting 1 /3rd of the \$1,495,951.98. \$498,650.66
	Component Description:  Amount:	In accordance with our quotation dated July 12, 2018 \$24,728.00
	Component Description:	SNMP Manager for V5 ARC Plus Touch

UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description:	Invoice should
NVV		have been
		submitted
	Amount:	N/A
	Component Description:	Transmitter
	Amount:	\$464,752.95
	Component Description:	ULXTE-100
	Amount:	\$114,533.49
	Component Description:	A. Transmitter
	Amount:	\$504,005.66
	Component Description:	invoice moved t
	Amount:	correct category N/A
Switchgear - industrial 800 amp	Information not provided.	
25 Ton system		
	Component Description:	HVAC unit for
		transmitter site
	Amount:	\$30,000.00

# **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 ATW16H3- HSOX-36H	\$224,229.45	\$213,708.95		\$213,708.95	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	\$31,589.45	\$31,589.45	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see Estimated Cost Justification WTVF-280- Interim Antenna - UHF High Power Side Mount, H- POL v0	\$31,589.45	N/A
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	\$10,352.00	Please see Estimated Cost Justification WTVF-280- Interim Antenna - Side Mount Brackets (Custom) v0	\$10,352.00	N/A
Sweep test of existing antenna	\$6,730.00	\$10,767.50	see Estimated Cost Justification WTVF-280- Interim Antenna - Sweep Test v0	\$10,767.50	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	\$52,500.00	\$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	\$105,000.00	\$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
Primary Antenna ATW24HS3- ETO-36H	\$334,730.00	\$267,029.52		\$267,029.52	
Primary Antenna- Road Repairs	\$38,500.00	\$38,500.00	Please see James Moseley DBA J C Paving Estimate #09132018	\$38,500.00	N/A
Tennessee Sales Tax	\$0.00	\$0.00	This cost has been allocated to the 399 budget category for the equipment or work taxed.	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,678.84	See Estimated Cost Justification WTVF-210- Primary Antenna - Sweep	\$6,678.84	N/A

UHF - High	\$289,500.00	\$221,850.68	See	\$221,850.68	N/A
Power Top			Estimated		
Mount (200-			Cost		
1000 kW),			Justification		
One			WTVF-210-		
station			Primary		
antenna,			Antenna -		
elliptically			UHF High		
or circularly			Power Top		
polarized			Mount, E-		
			POL V0		
Sub-total	\$558,959.45	\$480,738.47	N/A	\$480,738.47	N/A
Total for	\$4,882,880.41	\$4,493,317.57	N/A	\$3,319,602.97	N/A
all					
systems					

# Components

Actual Information Description	File Name	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	Component Description: Amount:	Interim Antenna System \$31,589.45
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Component Description: Amount:	ANTENNA SCATTERING STUDY \$3,500.00

Side mount brackets for high power antennas (if not included in antenna base cost)

Component Description: WTVF-28-Interim

Antenna - Side Mount Brackets

(Custom)

**Amount:** \$2,880.00

Component Description: WTVF-280-Interim

Antenna - Side Mount Brackets

(Custom)

**Amount:** \$2,880.00

Component Description: WTVF-280-Interim

Antenna - Side Mount Brackets

(Custom)

**Amount:** \$1,712.00

Component Description: WTVF-280-Interim

Antenna - Side Mount Brackets

(Custom)

**Amount:** \$2,880.00

Sweep test of existing		
antenna	Component Description:	WTVF-280-Interim Antenna - Sweep
		Test
	Amount:	\$1,875.00
	Component Description:	WTVF-280-Interim
		Antenna - Sweep
	Amount	Test
	Amount:	\$1,142.50
	Component Description:	WTVF-280-Interim
		Antenna - Sweep
	Amazzata	Test
	Amount:	\$1,875.00
	Component Description:	Overnight climb on
		WTVF tower
	Amount:	\$4,000.00
	Component Description:	WTVF-280-Interim
		Antenna - Sweep
	Amazonto	Test
	Amount:	\$1,875.00
UHF - High Power, Side Mount, basic slot antenna,		
1000 kW input, horizontally	Component Description:	Interim Antenna
polarized		System ATW16H3-
	Amount:	HSOX-36H \$52,500,00
	Amount:	\$52,500.00

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	Component Description: Amount:	ATW16H3-HSOX- 36H \$52,500.00
	Component Description: Amount:	ATW16H3-HSOX- 36H \$52,500.00
Primary Antenna- Road Repairs	Component Description: Amount:	Road Repairs \$38,500.00
	Component Description: Amount:	PAVING PROJECT \$38,500.00
Tennessee Sales Tax	Information not provided.	
Sweep test of existing antenna	Component Description:	WTVF-210- Primary Antenna - Sweep Test
	Amount:  Component Description:	\$1,053.84  WTVF-210-
	Amount:	Primary Antenna - Sweep Test \$1,875.00
	Component Description:	WTVF-210- Primary Antenna -
	Amount:	Sweep Test \$1,875.00
	Component Description:	WTVF-210- Primary Antenna - Sweep Test
	Amount:	\$1,875.00

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

Component Description: ATW24HS3-ETO-

36H

**Amount:** \$61,908.00

Component Description: Antenna and

Installation

**Amount:** \$61,908.00

Component Description: ANTENNA Amount: \$36,126.68

Component Description: ANTENNA

ATW24HS3-ETO-

36H

**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 Cos
Interim Transmission Line	\$157,560.00	\$167,040.00		\$134,243.60	
Rigid Transmission Line - copper, 6 1/8"	\$157,560.00	\$167,040.00	N/A	\$134,243.60	N/A
Primary Transmission Line	\$348,050.00	\$347,495.04		\$338,029.26	
Rigid Transmission Line - copper, 7 3 /16"	\$339,300.00	\$338,745.04	See Estimated Cost Justification WTVF-310- Primary Transmission Line Rigid Copper V1	\$338,029.26	N/A
Transmission Line System Design and Survey	\$8,750.00	\$8,750.00	N/A	N/A	N/A
Tennessee Sales Tax	\$0.00	\$0.00	This cost has been allocated to the 399 budget category for the equipment or work taxed.	\$0.00	N/A
Sub-total	\$505,610.00	\$514,535.04	N/A	\$472,272.86	N/A
Total for all systems	\$4,882,880.41	\$4,493,317.57	N/A	\$3,319,602.97	N/A

### Components

•		
Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8"	Component Description:  Amount:	MACXLINE 6 1/8" 75 OHM CUSTOM SECTION \$2,001.79
	Component Description:	WTVF-380-Interim Transmission Line - 6 1/8" Rigid
	Amount:	Copper \$35,539.63
	Component Description:	WTVF-380-Interim Transmission Line - 6 1/8" Rigid Copper
	Amount:	\$21,124.17
	Component Description:	WTVF-380-Interim Transmission Line - 6 1/8"" Rigid Copper
	Amount:	\$34,301.18
	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:	\$5,737.20

Rigid Transmission Line -		
copper, 7 3/16"	Component Description: Amount:	FREIGHT COSTS \$3,597.17
	Component Description: Amount:	FREIGHT COST \$11,088.54
	Component Description:	WTVF-310- Primary Transmission Line - 7 3/16" Rigid Copper
	Amount:	\$90,429.61
	Component Description:	WTVF-310- Primary Transmission Line - 7 3/16" Rigid Copper
	Amount:	\$90,429.61
	Component Description:	WTVF-310- Primary Transmission Line - 7 3/16" Rigid
	Amount:	Copper \$90,429.61
	Component Description:	WTVF-310- Primary Transmission Line - 7 3/16" Rigid
	Amount:	Copper \$52,054.72
Transmission Line System Design and Survey	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
Primary Tower LTOWER	\$591,600.00	\$700,598.11		\$576,218.24	
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$41,970.50	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	N/A	N/A
Tennessee Sales Tax	\$0.00	\$0.00	This cost has been allocated to the 399 budget category for the equipment or work taxed.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$538,598.11	Please see Estimated Cost Justification WTVF-410- Existing Primary Tower - Tower Rigging, Complex Tower V2	\$534,247.74	N/A
Sub-total	\$591,600.00	\$700,598.11	N/A	\$576,218.24	N/A

Total for all	\$4,882,880.41	\$4,493,317.57	N/A	\$3,319,602.97	N/A
systems					

#### Components

Actual Information Description	File Name	
Minor tower reinforcement /modifications	Component Description:  Amount:	WTVF-410- Existing Primary Tower - Minor Tower Reinforcement /Modifications \$11,745.00
	Component Description:  Amount:	WTVF-410- Existing Primary Tower - Minor Tower Reinforcement /Modifications \$6,735.50
	Component Description:  Amount:	WTVF-410- Existing Primary Tower - Minor Tower Reinforcement /Modifications \$11,745.00
	Component Description:	WTVF-410- Existing Primary Tower - Minor Tower Reinforcement /Modifications
	Amount:	\$11,745.00

Structural engineering	Information not provided.	
tower load study for well documented tower	illioimation not provided.	
Tennessee Sales Tax	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description:	WTVF-410- Existing Primary Tower - Tower Rigging, Complex
	Amount:	Tower \$95,131.50
	Component Description: Amount:	Tree Pruning \$6,300.00
	Component Description: Amount:	Weather day \$17,550.00
	Component Description: Amount:	RF Installation \$1,442.10
	Component Description:  Amount:	WTVF-410- Existing Primary Tower - Tower Rigging, Complex Tower \$20,001.30
	Component Description:	WTVF-410- Existing Primary Tower - Tower Rigging, Complex
	Amount:	Tower \$20,001.30

Component Description: WTVF-410-

Existing Primary
Tower - Tower
Rigging, Complex

Tower

**Amount:** \$11,414.07

Component Description: WTVF-410-

Existing Primary Tower - Tower Rigging, Complex

Tower

**Amount:** \$20,001.30

Component Description: WTVF-410-

Existing Primary
Tower - Tower
Rigging, Complex

Tower

**Amount:** \$95,131.50

Component Description: WTVF-410-

Existing Primary
Tower - Tower
Rigging, Complex

Tower

**Amount:** \$152,143.17

Component Description: WTVF-410-

Existing Primary
Tower - Tower
Rigging, Complex

Tower

**Amount:** \$95,131.50

### **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	\$176,048.88	\$176,973.88		\$105,669.03	
Tennessee Sales Tax	\$9,172.00	\$9,172.00	N/A	N/A	N/A
Site Survey	\$19,001.88	\$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
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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$600.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,352.50	N/A
Project management of the transition	\$94,010.00	\$99,675.00	Widelity Strategic Quote	\$81,364.65	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	\$450.00	N/A
Sub-total	\$176,048.88	\$176,973.88	N/A	\$105,669.03	N/A
Total for all systems	\$4,882,880.41	\$4,493,317.57	N/A	\$3,319,602.97	N/A

### Components

Actual Information Description	File Name	
Tennessee Sales Tax	Information not provided.	
Site Survey	Component Description: Amount:	FIELD SERVICE, TV \$19,001.88
RF Exposure Measurements	Information not provided.	
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	Component Description:	WTVF-530-RF Eng - Special Temporary Authorization
	Amount:	\$150.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	FCC Repack \$225.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100,	Component Description:	WTVF-530-RF Eng - Construction Permit Application
Construction Permit Application	Amount:	(Auxiliary) \$375.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	WTVF-530-RF Eng - Construction
· S Approaudi	Amount:	Permit Application (Main) \$600.00

Perform engineering study for new channel assignment and antenna development

Repack **Component Description:** 

> Conference Calls /Status Discussions

\$60.00 Amount:

**Component Description:** WACY - Calls w/

> Repack Team, Info Gathering on Station, Coverage

Maps

Amount: \$345.00

**Component Description:** Project

management

Amount: \$1,072.50

**Component Description:** FCC Repack

Amount: \$750.00

**Component Description:** WTVF-530-RF Eng

> - Engineering Study for New Channel

Assignment

Amount: \$150.00

**Component Description:** WTVF-530-RF Eng

> - Engineering Study for New Channel Assignment

Amount: \$225.00

Status Call **Component Description:** \$750.00

Amount:

Project management of the transition

**Component Description:** Project

Management

Amount: \$3,539.70 Component Description: Professional

Services \$150.00

**Amount:** \$150.0

Component Description: FOR SERVICES

RENDERED THROUGH: 10/1 /18-10/31/18

**Amount:** \$75.00

**Component Description:** FCC Repack **Amount:** \$150.00

Component Description: Project

Management

**Amount:** \$6,284.95

Component Description: FOR SERVICES

RENDERED

THROUGH: 6/1/19-

6/30/19

**Amount:** \$300.00

Component Description: WTVF-510-Project

Management

**Amount:** \$75.00

**Component Description:** Project

Management

**Amount:** \$7,998.05

Component Description: FOR SERVICES

RENDERED

**Amount:** \$1,050.00

**Component Description:** Project

Management

\$3,691.65 Amount:

Project

Management

Amount: \$232.80

**Component Description:** 

**Component Description:** Project

Management

Amount: \$4,575.15

**Component Description:** Project

Management

Amount: \$1,855.20

**Component Description:** Project

Management

Amount: \$2,910.75

**Component Description:** Project

Management

Amount: \$93.55

**Component Description:** Project

Management

Amount: \$1,237.75

Project **Component Description:** 

management

Amount:

\$1,745.60

**Component Description:** 

Amount:

Project

management

\$2,687.85

**Component Description:** Project

Management

Amount:

\$2,617.20

**Component Description:** Professional

Services

Amount: \$150.00

**Component Description:** Project

Management

Amount: \$4,581.80

**Component Description:** Project

Management

Amount: \$64.95

**Component Description:** Project

Management

\$5,530.15

**Component Description:** Project

Management

Amount: \$329.55

**Component Description:** Project

Management

Amount: \$4,008.30

**Component Description:** 

Amount:

Amount:

FCC Repack

\$150.00

**Component Description:** 

Project Management

Amount:

\$1,642.70

Component Description: Project

Management

Amount:

\$6,424.95

**Component Description:** 

Project

Amount:

Management \$4,479.55

**Component Description:** 

WTVF-510-Project

Management

Amount:

\$75.00

**Component Description:** 

Project

Amount:

Management \$7,274.70

**Component Description:** 

FCC Repack

Amount:

\$75.00

Component Description:

Professional

Amount:

Services \$75.00

**Component Description:** 

Project

management

Amount:

\$5,232.80

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

**Component Description:** 

Call to Discuss

**Linking Stations** 

Issue

Amount:

\$150.00

Prepare and or review
reimbursement form

Component Description: WTVF-590-Prepare

and/or Review

Reimbursement

Form

**Amount:** \$450.00

## **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	\$283,240.42	\$282,675.42		\$22,766.61	
VSWR Sweep of the Operating Channels	\$1,850.00	\$1,850.00	Please see WTVF ERI Change Order 35318K_2 and Email dated Jan 25 2021	\$1,850.00	N/A
Tennessee Sales Tax	\$9,805.00	\$9,805.00	N/A	N/A	N/A
In-Building Deconstruction	\$25,000.00	\$25,000.00	N/A	\$4,300.00	N/A
Employee Time	\$124,217.60	\$124,217.60	N/A	N/A	N/A
Digital Translator Antenna Dismantle and Install	\$7,215.21	\$7,215.21	Please see WTVF ERI Change Order 35318K_1 and Client Email	\$7,215.20	N/A
MVPD Notification of Channel Change	\$3,072.61	\$3,072.61	see Estimated Cost Justification WTVF-610- MVPD Notifications v0	\$3,072.61	N/A

Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Equipment Storage	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$2,184.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	\$500.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,644.80	N/A
Sub-total	\$283,240.42	\$282,675.42	N/A	\$22,766.61	N/A
Total for all systems	\$4,882,880.41	\$4,493,317.57	N/A	\$3,319,602.97	N/A

### Components

Actual Information	
Description	File Name

VSWR Sweep of the Operating Channels	Component Description: Amount:	SYSTEM SWEEP \$1,850.00
Tennessee Sales Tax	Information not provided.	
In-Building Deconstruction	Component Description:  Amount:	Permitting Submittal Package \$4,300.00
Employee Time	Information not provided.	
Digital Translator Antenna Dismantle and Install	Component Description:  Amount:	90 DEGREE FLANGED ELBOW \$7,215.20
MVPD Notification of Channel Change	Component Description:  Amount:	MVPD Notification Services \$3,072.61
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Amount:	Unload (1) 53' Trailer \$2,184.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	

Non-zoning permits		
	Component Description:	Scope of
		Services:
	Amount:	\$500.00
FCC Filing Fees - Special	Information not provided.	
Temporary Authorization request		
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility		
Notification	Component Description:	Notification of
		Medical Facilities
	Amount:	\$3,644.80

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,882,880.41	\$4,493,317.57	\$3,319,602.97

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

Section Question Response

### Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
  Person signing
  below certifies that he
  /she is authorized to
  submit this TV
  Broadcaster
  Relocation Fund
  Reimbursement
  Form on behalf of
  the above-named
  entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Sravan V
Reddy ,
Reddy .
Senior
Director,
General
Accounting

04/20/2021

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
  Person signing
  below certifies and
  represents that he
  /she is authorized to
  submit this TV
  Broadcaster
  Relocation Fund
  Reimbursement
  Form on behalf of
  the above-named
  entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Sravan V
Reddy ,
Reddy .
Senior
Director,
General
Accounting

04/20/2021

#### **Attachments**