



(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 **04/21**
Submitted: **/2020**

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 STREET, 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
Ray Thurber <i>Vice President Engineering</i> 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 and Type	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.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
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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

**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	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
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A

	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	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

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Tennessee Sales Tax	Tennessee Sales Tax for Antenna

**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 Manufacturer and Type	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	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
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	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
New Transmission Line Costs	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
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 Services	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
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 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
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
Employee Time	Time needed by Scripps corporate and WTVF employees to work on the transition to a new channel.
Tennessee Sales Tax	Tennessee Sales Tax on Other Expenses
In-Building Deconstruction	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
Primary Transmitter ULXTE-100	\$2,693,465.66	\$1,980,848.04		\$1,027,923.32	
25 Ton system	\$91,500.00	\$57,113.00	See attached justification for the HVAC unit.	N/A	N/A
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	<i>\$12,300.00</i>	\$12,300.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
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.	\$504,005.66	N/A

Ice Bridge and Concrete Pad	\$28,548.00	\$28,548.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 62.9 kW	\$523,917.66	\$523,917.66	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$523,917.66	N/A
Sub-total	\$2,693,465.66	\$1,980,848.04	N/A	\$1,027,923.32	N/A
Total for all systems	\$4,881,443.26	\$3,950,680.64	N/A	\$1,929,436.48	N/A

Components

Actual Information	
Description	File Name
25 Ton system	Information not provided.
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description: A. Transmitter Amount: \$504,005.66
Ice Bridge and Concrete Pad	Information not provided.

UHF - Liquid Cooled Solid
State Transmitter 62.9 kW

Component Description:

SNMP Manager for
V5 ARC Plus
Touch

Amount:

\$539.00

Component Description:

Gates Air WTVF
Transmitter 1st
installment. Per the
note upon review,
we are requesting 1
/3rd of the
\$1,495,951.98.

Amount:

\$498,650.66

Component Description:

In accordance with
our quotation
dated July 12,
2018

Amount:

\$24,728.00

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	\$210,140.00	\$194,500.00		\$171,765.00	
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
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	<i>\$17,500.00</i>	\$17,500.00	Please see attached ERI Proposal 20170627-949 as well as amounts already paid toward this category	N/A	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	N/A	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, 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	\$344,589.00	\$261,119.00		\$127,566.00	

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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,750.00	N/A
Tennessee Sales Tax	\$48,359.00	\$48,359.00	N/A	N/A	N/A
Sub-total	\$554,729.00	\$455,619.00	N/A	\$299,331.00	N/A
Total for all systems	\$4,881,443.26	\$3,950,680.64	N/A	\$1,929,436.48	N/A

Components

Actual Information
Description

File Name

<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="719 174 1027 210">Component Description:</td><td data-bbox="1161 174 1366 327">WTVF-28-Interim Antenna - Side Mount Brackets (Custom)</td></tr> <tr> <td data-bbox="719 338 831 367">Amount:</td><td data-bbox="1161 338 1281 367">\$2,880.00</td></tr> <tr> <td data-bbox="719 477 1027 512">Component Description:</td><td data-bbox="1161 477 1366 667">WTVF-280-Interim Antenna - Side Mount Brackets (Custom)</td></tr> <tr> <td data-bbox="719 678 831 707">Amount:</td><td data-bbox="1161 678 1281 707">\$2,880.00</td></tr> <tr> <td data-bbox="719 817 1027 853">Component Description:</td><td data-bbox="1161 817 1366 1008">WTVF-280-Interim Antenna - Side Mount Brackets (Custom)</td></tr> <tr> <td data-bbox="719 1019 831 1048">Amount:</td><td data-bbox="1161 1019 1281 1048">\$2,880.00</td></tr> </table>	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:	\$2,880.00
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<p>UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized</p>	<p>Information not provided.</p>												
<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>												

Sweep test of existing antenna	<table> <tr> <td data-bbox="719 174 1027 208">Component Description:</td><td data-bbox="1161 174 1362 286">WTVF-280-Interim Antenna - Sweep Test</td></tr> <tr> <td data-bbox="719 297 831 331">Amount:</td><td data-bbox="1161 297 1278 331">\$1,875.00</td></tr> <tr> <td data-bbox="719 432 1027 465">Component Description:</td><td data-bbox="1161 432 1362 544">WTVF-280-Interim Antenna - Sweep Test</td></tr> <tr> <td data-bbox="719 555 831 589">Amount:</td><td data-bbox="1161 555 1278 589">\$1,875.00</td></tr> <tr> <td data-bbox="719 689 1027 723">Component Description:</td><td data-bbox="1161 689 1362 801">WTVF-280-Interim Antenna - Sweep Test</td></tr> <tr> <td data-bbox="719 813 831 846">Amount:</td><td data-bbox="1161 813 1278 846">\$1,875.00</td></tr> </table>	Component Description:	WTVF-280-Interim Antenna - Sweep Test	Amount:	\$1,875.00	Component Description:	WTVF-280-Interim Antenna - Sweep Test	Amount:	\$1,875.00	Component Description:	WTVF-280-Interim Antenna - Sweep Test	Amount:	\$1,875.00
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Amount:	\$1,875.00												
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	<table> <tr> <td data-bbox="719 981 1027 1014">Component Description:</td><td data-bbox="1161 981 1374 1137">Interim Antenna System ATW16H3-HSOX-36H</td></tr> <tr> <td data-bbox="719 1149 831 1182">Amount:</td><td data-bbox="1161 1149 1294 1182">\$52,500.00</td></tr> </table>	Component Description:	Interim Antenna System ATW16H3-HSOX-36H	Amount:	\$52,500.00								
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UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, horizontally polarized	<table> <tr> <td data-bbox="719 1317 1027 1350">Component Description:</td><td data-bbox="1161 1317 1374 1384">ATW16H3-HSOX-36H</td></tr> <tr> <td data-bbox="719 1395 831 1429">Amount:</td><td data-bbox="1161 1395 1294 1429">\$52,500.00</td></tr> <tr> <td data-bbox="719 1529 1027 1563">Component Description:</td><td data-bbox="1161 1529 1374 1597">ATW16H3-HSOX-36H</td></tr> <tr> <td data-bbox="719 1608 831 1641">Amount:</td><td data-bbox="1161 1608 1294 1641">\$52,500.00</td></tr> </table>	Component Description:	ATW16H3-HSOX-36H	Amount:	\$52,500.00	Component Description:	ATW16H3-HSOX-36H	Amount:	\$52,500.00				
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Component Description:	ATW16H3-HSOX-36H												
Amount:	\$52,500.00												

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="722 174 1027 208">Component Description:</td><td data-bbox="1161 174 1374 286">ANTENNA ATW24HS3-ETO-36H</td></tr> <tr> <td data-bbox="722 297 831 331">Amount:</td><td data-bbox="1161 297 1294 331">\$61,908.00</td></tr> <tr> <td data-bbox="722 432 1027 465">Component Description:</td><td data-bbox="1161 432 1310 510">Antenna and Installation</td></tr> <tr> <td data-bbox="722 521 831 555">Amount:</td><td data-bbox="1161 521 1294 555">\$61,908.00</td></tr> </table>	Component Description:	ANTENNA ATW24HS3-ETO-36H	Amount:	\$61,908.00	Component Description:	Antenna and Installation	Amount:	\$61,908.00
Component Description:	ANTENNA ATW24HS3-ETO-36H								
Amount:	\$61,908.00								
Component Description:	Antenna and Installation								
Amount:	\$61,908.00								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="722 683 1027 716">Component Description:</td><td data-bbox="1161 683 1374 795">WTVF-210- Primary Antenna - Sweep Test</td></tr> <tr> <td data-bbox="722 806 831 840">Amount:</td><td data-bbox="1161 806 1278 840">\$1,875.00</td></tr> <tr> <td data-bbox="722 940 1027 974">Component Description:</td><td data-bbox="1161 940 1374 1052">WTVF-210- Primary Antenna - Sweep Test</td></tr> <tr> <td data-bbox="722 1064 831 1097">Amount:</td><td data-bbox="1161 1064 1278 1097">\$1,875.00</td></tr> </table>	Component Description:	WTVF-210- Primary Antenna - Sweep Test	Amount:	\$1,875.00	Component Description:	WTVF-210- Primary Antenna - Sweep Test	Amount:	\$1,875.00
Component Description:	WTVF-210- Primary Antenna - Sweep Test								
Amount:	\$1,875.00								
Component Description:	WTVF-210- Primary Antenna - Sweep Test								
Amount:	\$1,875.00								
<p>Tennessee Sales Tax</p>	<p>Information not provided.</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
Interim Transmission Line	\$157,560.00	\$167,040.00		\$105,380.44	
Rigid Transmission Line - copper, 6 1/8"	\$157,560.00	\$167,040.00	N/A	\$105,380.44	N/A
Primary Transmission Line	\$394,181.00	\$377,801.00		\$180,859.22	
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
Rigid Transmission Line - copper, 7 3/16"	\$339,300.00	\$322,920.00	N/A	\$180,859.22	N/A
Sub-total	\$551,741.00	\$544,841.00	N/A	\$286,239.66	N/A
Total for all systems	\$4,881,443.26	\$3,950,680.64	N/A	\$1,929,436.48	N/A

Components

Actual Information
DescriptionFile 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
Transmission Line System Design and Survey	Information not provided.		
Tennessee Sales Tax	Information not provided.		
Rigid Transmission Line - copper, 7 3/16"	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

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		\$285,501.90	
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	\$250,266.90	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$35,235.00	N/A
Tennessee Sales Tax	\$42,358.00	\$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	\$285,501.90	N/A
Total for all systems	\$4,881,443.26	\$3,950,680.64	N/A	\$1,929,436.48	N/A

Components

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

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:	\$20,001.30

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:	\$20,001.30

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

Minor tower reinforcement /modifications	<div> Component Description: <div>WTVF-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications</div> </div> <div> Amount: <div>\$11,745.00</div> </div>
	<div> Component Description: <div>WTVF-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications</div> </div> <div> Amount: <div>\$11,745.00</div> </div>
	<div> Component Description: <div>WTVF-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications</div> </div> <div> Amount: <div>\$11,745.00</div> </div>
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
Outside Professional Services	\$173,947.00	\$174,872.00		\$25,990.60	
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
Project management of the transition	\$94,010.00	\$99,675.00	Widely Strategic Quote	\$24,115.60	N/A
Site Survey	<i>\$16,900.00</i>	\$16,900.00	N/A	N/A	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), 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	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Tennessee Sales Tax	\$9,172.00	\$9,172.00	N/A	N/A	N/A
Sub-total	\$173,947.00	\$174,872.00	N/A	\$25,990.60	N/A
Total for all systems	\$4,881,443.26	\$3,950,680.64	N/A	\$1,929,436.48	N/A

Components

Actual Information		
Description	File Name	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	FCC Repack
	Amount:	\$225.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description:	WTVF-530-RF Eng - Construction Permit Application (Auxiliary)
	Amount:	\$375.00
Project management of the transition	Component Description:	Project Management
	Amount:	\$3,691.65
	Component Description:	Project Management
	Amount:	\$232.80
	Component Description:	Project Management
	Amount:	\$4,575.15
	Component Description:	Project Management
	Amount:	\$1,855.20

Component Description:	Project Management
Amount:	\$93.55

Component Description:	Project Management
Amount:	\$64.95

Component Description:	Project Management
Amount:	\$1,642.70

Component Description:	Project Management
Amount:	\$329.55

Component Description:	WTVF-510-Project Management
Amount:	\$75.00

Component Description:	Project Management
Amount:	\$4,008.30

Component Description:	Project Management
Amount:	\$2,617.20

Component Description:	FCC Repack
Amount:	\$75.00

Component Description:	FCC Repack
Amount:	\$150.00

	<p>Component Description: Project Management</p> <p>Amount: \$4,479.55</p>
	<p>Component Description: WTVF-510-Project Management</p> <p>Amount: \$75.00</p>
	<p>Component Description: FCC Repack</p> <p>Amount: \$150.00</p>
Site Survey	Information not provided.
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	<p>Component Description: WTVF-530-RF Eng - Special Temporary Authorization</p> <p>Amount: \$150.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="715 174 1023 208">Component Description:</td><td data-bbox="1157 174 1369 365">WTVF-530-RF Eng - Engineering Study for New Channel Assignment</td></tr> <tr> <td data-bbox="715 376 826 409">Amount:</td><td data-bbox="1157 376 1252 409">\$150.00</td></tr> <tr> <td data-bbox="715 517 1023 551">Component Description:</td><td data-bbox="1157 517 1284 551">Status Call</td></tr> <tr> <td data-bbox="715 555 826 589">Amount:</td><td data-bbox="1157 555 1252 589">\$750.00</td></tr> <tr> <td data-bbox="715 696 1023 730">Component Description:</td><td data-bbox="1157 696 1369 887">WTVF-530-RF Eng - Engineering Study for New Channel Assignment</td></tr> <tr> <td data-bbox="715 891 826 925">Amount:</td><td data-bbox="1157 891 1252 925">\$225.00</td></tr> </table>	Component Description:	WTVF-530-RF Eng - Engineering Study for New Channel Assignment	Amount:	\$150.00	Component Description:	Status Call	Amount:	\$750.00	Component Description:	WTVF-530-RF Eng - Engineering Study for New Channel Assignment	Amount:	\$225.00
Component Description:	WTVF-530-RF Eng - Engineering Study for New Channel Assignment												
Amount:	\$150.00												
Component Description:	Status Call												
Amount:	\$750.00												
Component Description:	WTVF-530-RF Eng - Engineering Study for New Channel Assignment												
Amount:	\$225.00												
Address transition timing and coordination issues w/ other stations and wireless	<table> <tr> <td data-bbox="715 1061 1023 1095">Component Description:</td><td data-bbox="1157 1061 1342 1173">Call to Discuss Linking Stations Issue</td></tr> <tr> <td data-bbox="715 1184 826 1218">Amount:</td><td data-bbox="1157 1184 1252 1218">\$150.00</td></tr> </table>	Component Description:	Call to Discuss Linking Stations Issue	Amount:	\$150.00								
Component Description:	Call to Discuss Linking Stations Issue												
Amount:	\$150.00												
Prepare and or review reimbursement form	Information not provided.												
Tennessee Sales Tax	Information not provided.												

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$273,602.60	\$273,037.60		\$4,300.00	
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
MVPD Notification of Channel Change	<i>\$2,500.00</i>	\$2,500.00	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	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$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
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Sub-total	\$273,602.60	\$273,037.60	N/A	\$4,300.00	N/A
Total for all systems	\$4,881,443.26	\$3,950,680.64	N/A	\$1,929,436.48	N/A

Components

Actual Information	
Description	File Name
In-Building Deconstruction	<p>Component Description: Permitting Submittal Package</p> <p>Amount: \$4,300.00</p>
Tennessee Sales Tax	Information not provided.
Employee Time	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.

Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	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.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$4,881,443.26	\$3,950,680.64
			\$1,929,436.48

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>Sravan Reddy , Reddy . <i>Senior Director, General Accounting</i></p> <p>04/21/2020</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>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).</p>	
		<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>Sravan Reddy , Reddy . <i>Senior Director, General Accounting</i></p> <p>04/21/2020</p>

Attachments