



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **16817** | Service: **DTV** | Call **WTVS** | Channel: **20 (UHF)** |  
ID: | Sign:  
File **0000027891**  
Number:  
FRN: **0002770360** | Date **04/09**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>DETROIT EDUCATIONAL TELEVISION FOUNDATION</b> Doing Business As: WTVS	John Mark RILEY BROADCASTCAST CENTER 1 CLOVER COURT WIXOM, MI 48393 United States	+1 (248) 305- 3788	jmark@dptv. org	Not-for-Profit

## 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>John Mark</b> <i>VP Engineering</i> <i>Detroit Educational Television Foundation</i>	John Mark 1 Clover Court Wixom, MI 48393 United States	+1 (248) 305- 3760	jmark@dptv. org

**Broadcaster  
Information  
and  
Transition  
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	3 stations Install and operate from a new side mount Broadband Antenna installed before implementation of Phase 3 due to WMYD early transition. Install new transmitter filters coax and antenna to operate on post transition assigned frequency of channel 20

**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	Visionary DT Dual HP25SDW
	Year	1999
	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-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38 kW
	Justification for New Transmitter	Current Transmitter Manufacture no longer in business Parts unavailable SS transmitter lower cost than IOT See Attached

**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	Yes

	Size	2 inches
	Length	200.0 feet
	Other Electrical Service	Yes
	Description	Generator replacement Electrical installation for Transmitter
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 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?	Yes
	Size	1500.0 square feet
<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
electrical Sub panel	power distribution for new combiner room
HVAC ice shield	protection for external portion of HVAC
10 ton Heating and cooling unit	antenna combiner room heating and cooling

**Antennas**

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

## Primary Antenna

### Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	600.0 kW

Manufacturer	
Model	TFU-18GBH-R04
Year	1999



Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	345.0 kW
	Manufacturer	

Model	TFU-24GTH-VP-R 06
Year	2019
Justification for New Antenna	Current antenna does not support new channel Vertical upgrade will be a separate line item on invoice

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No

<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**

Information not provided.

**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	Leased
	Owner	American Tower
	Is antenna shared?	Yes
	Is antenna directional?	No
	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	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	3
	Number of Panels/Bays	24
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	60.0 kW
	Manufacturer	
	Model	TFU-24WB /VP

Year	2018
Justification for New Antenna	Candelabra will need extensive upgrades for repack of 3 stations 1 in phase 3 two in phase 8

## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	7 3/16 inches
<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?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number
21
43
44

**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
combiner installation	installation of combiner by manufacture
Ice Shield for new Side-Mount Antenna Interim	Ice shield to protect interim antenna

**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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1200 feet per run



**Primary**      **New Transmission Line**  
**Transmission Line**      **Section**

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	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	1200 feet per run
	Justification for New Transmission Line	Cannel reassignment is forbidden channel on current coax

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

**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	7 3/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	995 feet per run
	Justification for New Transmission Line	no current interim coax cost for coax, 3 elbows and nitrogen generator for pressurization of line

**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	Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1003429
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 26' 52.5" N-
	Longitude (NAD83)	083° 10' 23.1" W-
	Overall Structure Height	1086.93 feet
	Support Structure Height	1012.13 feet
	Ground Elevation Above Mean Sea Level (AMSL)	662.07 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Tower, LLC
Date Constructed	06/11/1999

**FM, AM or TV radio  
broadcasters. Facility ID's,  
Call Signs and Services of  
other broadcast stations with  
whom the tower is shared**

Facility ID	Call Sign	Service
6056	WRCJ-FM	FM
72123	WWJ-TV	DTV
74211	WMYD	DTV

**Other Types of Users**

Users
T-Mobil
W232CA
W268CN
W224CC
W292DK
WHNE-LD

**Primary  
Tower**

**Tower Modification Costs**

Section	Question	Response
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<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Candelabra
<b>Helicopter Services Required</b>	Are helicopter services required?	Yes

**Primary Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	690
	Explanation	Project management fees charged by tower owner
<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	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	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
<b>Site Coordination meeting</b>	Coordination meeting of tenants tower owner and all contractors and vendors involved with the deliveries and construction. Travel and Logistical expenses incurred
<b>RF System Test</b>	RF System Test

## 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	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<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?	No
	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
tower owner permits	Permits for combiner room electrical and construction permits
Employee time	Employee's time spent working on paperwork accounting, transmitter work, and supervision
Interim antenna connection	Coax, switches, forward/reverse power meters to interconnect with interim antenna
Interim antenna tower lease	Tower rental space for interim antenna
Lift equipment rental	fork lift and/or crane for lifting heavy equipment
Site Security	Due to high value equipment stored outside additional security measures needed

## 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-60</b>	<b>\$1,713,618.27</b>	<b>\$1,130,552.20</b>		<b>\$1,077,190.26</b>	
10 ton Heating and cooling unit	<i>\$19,219.00</i>	\$19,219.00	see Justifying Quote WTVS Kropf Mechanical Service Company	\$19,219.00	N/A
HVAC ice shield	<i>\$1,500.00</i>	\$1,500.00	American tower charge	\$0.00	N/A
electrical Sub panel	<i>\$1,700.00</i>	\$1,700.00	American Tower Charge	\$833.34	X
Other -- Building Addition Size: 1500.0	<i>\$8,399.27</i>	\$8,399.27	see Estimated Cost Justification WTVS-110-1st Primary Transmitter - Building Addition, 1,500 sq. ft. v0	\$6,524.42	N/A
10 Ton system	\$38,900.00	\$15,864.00	Replace 5 ton unit with 10 ton unit due to increased heat load of transmitter Available wall space will not support 2 5 ton units	\$0.00	N/A

Other Electrical Service: Generator replacement Electrical installation for Transmitter	<b>\$127,500.00</b>	\$127,500.00	Electrical costs for 230KW generator and installation replacement due to inadequate power for new transmitter also transmitter electrical installation and decommissioning cost	\$109,308.67	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$6,050.00	American tower charge	\$0.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$1,667.00	American tower charge	\$624.84	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$948,652.93	GatesAir Quote Q-80362	\$940,679.99	N/A
<b>Sub-total</b>	\$1,713,618.27	\$1,130,552.20	N/A	\$1,077,190.26	N/A
<b>Total for all systems</b>	\$4,131,708.46	\$3,264,415.02	N/A	\$2,348,475.61	N/A

## Components

Actual Information	
Description	File Name
10 ton Heating and cooling unit	<p><b>Component Description:</b> Completed the installation of one</p> <p><b>Amount:</b> \$19,219.00</p>
HVAC ice shield	Information not provided.

electrical Sub panel	<div> <div> <b>Component Description:</b> </div> <div> WTVS-110-1st Primary Transmitter - Electrical Sub Panel </div> </div> <div> <b>Amount:</b> </div> <div> \$833.34 </div>
Other -- Building Addition Size: 1500.0	<div> <div> <b>Component Description:</b> </div> <div> CAPITAL CONTRIBUTION - DETROIT - OAK PARK </div> </div> <div> <b>Amount:</b> </div> <div> \$2,730.82 </div>
	<div> <div> <b>Component Description:</b> </div> <div> 1/4" MIP X CLOSE </div> </div> <div> <b>Amount:</b> </div> <div> \$43.60 </div>
	<div> <div> <b>Component Description:</b> </div> <div> WTVS-110-1st Primary Transmitter - Building Addition, 1,500 sq. ft. </div> </div> <div> <b>Amount:</b> </div> <div> \$2,500.00 </div>
	<div> <div> <b>Component Description:</b> </div> <div> 25% downpayment on component </div> </div> <div> <b>Amount:</b> </div> <div> \$1,250.00 </div>
10 Ton system	Information not provided.

Other Electrical Service: Generator replacement Electrical installation for Transmitter	<table> <tr> <td data-bbox="699 174 1007 208"><b>Component Description:</b></td><td data-bbox="1139 174 1366 286">Remove and replace (1) 150 KW generator</td></tr> <tr> <td data-bbox="699 297 807 331"><b>Amount:</b></td><td data-bbox="1139 297 1270 331">\$27,223.00</td></tr> <tr> <td data-bbox="699 432 1007 465"><b>Component Description:</b></td><td data-bbox="1139 432 1350 544">Remove and replace (1) 150kw generator</td></tr> <tr> <td data-bbox="699 555 807 589"><b>Amount:</b></td><td data-bbox="1139 555 1270 589">\$81,669.00</td></tr> <tr> <td data-bbox="699 689 1007 723"><b>Component Description:</b></td><td data-bbox="1139 689 1321 768">25% deposit on component</td></tr> <tr> <td data-bbox="699 779 807 813"><b>Amount:</b></td><td data-bbox="1139 779 1235 813">\$416.67</td></tr> </table>	<b>Component Description:</b>	Remove and replace (1) 150 KW generator	<b>Amount:</b>	\$27,223.00	<b>Component Description:</b>	Remove and replace (1) 150kw generator	<b>Amount:</b>	\$81,669.00	<b>Component Description:</b>	25% deposit on component	<b>Amount:</b>	\$416.67
<b>Component Description:</b>	Remove and replace (1) 150 KW generator												
<b>Amount:</b>	\$27,223.00												
<b>Component Description:</b>	Remove and replace (1) 150kw generator												
<b>Amount:</b>	\$81,669.00												
<b>Component Description:</b>	25% deposit on component												
<b>Amount:</b>	\$416.67												
Switchgear - industrial 800 amp	Information not provided.												
2" Rigid Conduit and Wiring (Cost per foot)	<table> <tr> <td data-bbox="699 1055 1007 1088"><b>Component Description:</b></td><td data-bbox="1139 1055 1366 1133">25% deposit for this component</td></tr> <tr> <td data-bbox="699 1137 807 1171"><b>Amount:</b></td><td data-bbox="1139 1137 1235 1171">\$208.34</td></tr> <tr> <td data-bbox="699 1272 1007 1305"><b>Component Description:</b></td><td data-bbox="1139 1272 1353 1305">Broadcast Repack</td></tr> <tr> <td data-bbox="699 1317 807 1350"><b>Amount:</b></td><td data-bbox="1139 1317 1235 1350">\$416.50</td></tr> </table>	<b>Component Description:</b>	25% deposit for this component	<b>Amount:</b>	\$208.34	<b>Component Description:</b>	Broadcast Repack	<b>Amount:</b>	\$416.50				
<b>Component Description:</b>	25% deposit for this component												
<b>Amount:</b>	\$208.34												
<b>Component Description:</b>	Broadcast Repack												
<b>Amount:</b>	\$416.50												
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<table> <tr> <td data-bbox="699 1487 1007 1520"><b>Component Description:</b></td><td data-bbox="1139 1487 1337 1599">RIGID TRANSMISSION LINE - COPPER</td></tr> <tr> <td data-bbox="699 1610 807 1644"><b>Amount:</b></td><td data-bbox="1139 1610 1235 1644">\$618.75</td></tr> <tr> <td data-bbox="699 1744 1007 1778"><b>Component Description:</b></td><td data-bbox="1139 1744 1305 1778">A. Transmitter</td></tr> <tr> <td data-bbox="699 1789 807 1823"><b>Amount:</b></td><td data-bbox="1139 1789 1286 1823">\$316,217.64</td></tr> <tr> <td data-bbox="699 1924 1007 1957"><b>Component Description:</b></td><td data-bbox="1139 1924 1286 2002">CONTRACT AMOUNT</td></tr> <tr> <td data-bbox="699 2013 807 2047"><b>Amount:</b></td><td data-bbox="1139 2013 1267 2047">\$14,350.71</td></tr> </table>	<b>Component Description:</b>	RIGID TRANSMISSION LINE - COPPER	<b>Amount:</b>	\$618.75	<b>Component Description:</b>	A. Transmitter	<b>Amount:</b>	\$316,217.64	<b>Component Description:</b>	CONTRACT AMOUNT	<b>Amount:</b>	\$14,350.71
<b>Component Description:</b>	RIGID TRANSMISSION LINE - COPPER												
<b>Amount:</b>	\$618.75												
<b>Component Description:</b>	A. Transmitter												
<b>Amount:</b>	\$316,217.64												
<b>Component Description:</b>	CONTRACT AMOUNT												
<b>Amount:</b>	\$14,350.71												

<b>Component Description:</b>	ULXTE-60 Transmitter
<b>Amount:</b>	\$185,777.41

<b>Component Description:</b>	2nd PROGRESS INVOICE FOR THE TRANSMITTER REPLACEMENT PROJECT
<b>Amount:</b>	\$7,392.79

<b>Component Description:</b>	OTHER
<b>Amount:</b>	\$40.69

<b>Component Description:</b>	Cushion Clamp Strut Mount
<b>Amount:</b>	\$79.80

<b>Component Description:</b>	Cushion Clamp Strut Mount
<b>Amount:</b>	\$26.60

<b>Component Description:</b>	CHANNEL JOINER FITTINGS
<b>Amount:</b>	\$77.16

<b>Component Description:</b>	STRUT CHANNEL
<b>Amount:</b>	\$727.92

<b>Component Description:</b>	Transmitter
<b>Amount:</b>	\$80,602.03

<b>Component Description:</b>	3rd progress invoice for the transmitter replacement
<b>Amount:</b>	\$10,871.75

<b>Component Description:</b>	BPME6-UH, BPME 6-1/8" Flanged
<b>Amount:</b>	\$7,679.10

<b>Component Description:</b>	ULXTE-60 Transmitter
<b>Amount:</b>	\$316,217.64

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## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-24WB /VP	\$268,038.89	\$253,463.22		\$243,771.00	
Ice Shield for new Side-Mount Antenna Interim	<i>\$744.81</i>	\$744.81	Please see American Towers LLC Project Cost Estimation	\$744.81	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$6,000.00	N/A	\$5,260.00	N/A



combiner installation	<b>\$15,962.33</b>	\$15,962.33	see Estimated Cost Justification WTVS-280- Interim Antenna - Combiner Installation v0	\$15,962.33	a
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,333.33	X
New combiner, cost per channel (without antenna)	\$84,200.00	\$81,954.33	see Estimated Cost Justification WTVS-280- Interim Antenna - New Combiner v0	\$81,954.33	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, elliptically or circularly polarized	<b>\$120,401.75</b>	\$120,401.75	American Tower cost estimate and PO #13-1652	\$136,516.20	The actual amount reimbursed for invoice 460199507 is \$15,000 (not \$97,901.75)
<b>Primary Antenna TFU- 24GTH-VP- R 06</b>	<b>\$308,530.00</b>	<b>\$293,100.00</b>		<b>\$203,123.24</b>	

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$275,000.00	N/A	\$186,590.24	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	\$10,773.00	N/A
<b>Sub-total</b>	\$576,568.89	\$546,563.22	N/A	\$446,894.24	N/A
<b>Total for all systems</b>	\$4,131,708.46	\$3,264,415.02	N/A	\$2,348,475.61	N/A

## Components

Actual Information	
Description	File Name
Ice Shield for new Side-Mount Antenna Interim	<p><b>Component Description:</b> WTVS-280-Interim Antenna - Ice Shield</p> <p><b>Amount:</b> \$744.81</p>
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.

<p>Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="699 174 1007 208"><b>Component Description:</b></td><td data-bbox="1139 174 1366 322">WTVS-280-Interim Antenna - Elbow Complex, Broadband, 7 3/16"</td></tr> <tr> <td data-bbox="699 338 807 371"><b>Amount:</b></td><td data-bbox="1139 338 1257 371">\$2,760.00</td></tr> <tr> <td data-bbox="699 477 1007 510"><b>Component Description:</b></td><td data-bbox="1139 477 1366 546">25% downpayment for compenent</td></tr> <tr> <td data-bbox="699 562 807 595"><b>Amount:</b></td><td data-bbox="1139 562 1238 595">\$833.33</td></tr> <tr> <td data-bbox="699 701 1007 734"><b>Component Description:</b></td><td data-bbox="1139 701 1366 851">WTVS-280-Interim Antenna - Elbow Complex, Broadband, 7 3/16"</td></tr> <tr> <td data-bbox="699 866 807 900"><b>Amount:</b></td><td data-bbox="1139 866 1257 900">\$1,666.67</td></tr> </table>	<b>Component Description:</b>	WTVS-280-Interim Antenna - Elbow Complex, Broadband, 7 3/16"	<b>Amount:</b>	\$2,760.00	<b>Component Description:</b>	25% downpayment for compenent	<b>Amount:</b>	\$833.33	<b>Component Description:</b>	WTVS-280-Interim Antenna - Elbow Complex, Broadband, 7 3/16"	<b>Amount:</b>	\$1,666.67
<b>Component Description:</b>	WTVS-280-Interim Antenna - Elbow Complex, Broadband, 7 3/16"												
<b>Amount:</b>	\$2,760.00												
<b>Component Description:</b>	25% downpayment for compenent												
<b>Amount:</b>	\$833.33												
<b>Component Description:</b>	WTVS-280-Interim Antenna - Elbow Complex, Broadband, 7 3/16"												
<b>Amount:</b>	\$1,666.67												
<p>combiner installation</p>	<table> <tr> <td data-bbox="699 1025 1007 1059"><b>Component Description:</b></td><td data-bbox="1139 1025 1375 1137">WTVS-280-Interim Antenna - Combiner Installation</td></tr> <tr> <td data-bbox="699 1153 807 1187"><b>Amount:</b></td><td data-bbox="1139 1153 1257 1187">\$9,712.50</td></tr> <tr> <td data-bbox="699 1292 1007 1326"><b>Component Description:</b></td><td data-bbox="1139 1292 1366 1361">25% downpayment on component</td></tr> <tr> <td data-bbox="699 1377 807 1411"><b>Amount:</b></td><td data-bbox="1139 1377 1257 1411">\$2,083.33</td></tr> <tr> <td data-bbox="699 1516 1007 1550"><b>Component Description:</b></td><td data-bbox="1139 1516 1375 1628">WTVS-280-Interim Antenna - Combiner Installation</td></tr> <tr> <td data-bbox="699 1644 807 1677"><b>Amount:</b></td><td data-bbox="1139 1644 1257 1677">\$4,166.50</td></tr> </table>	<b>Component Description:</b>	WTVS-280-Interim Antenna - Combiner Installation	<b>Amount:</b>	\$9,712.50	<b>Component Description:</b>	25% downpayment on component	<b>Amount:</b>	\$2,083.33	<b>Component Description:</b>	WTVS-280-Interim Antenna - Combiner Installation	<b>Amount:</b>	\$4,166.50
<b>Component Description:</b>	WTVS-280-Interim Antenna - Combiner Installation												
<b>Amount:</b>	\$9,712.50												
<b>Component Description:</b>	25% downpayment on component												
<b>Amount:</b>	\$2,083.33												
<b>Component Description:</b>	WTVS-280-Interim Antenna - Combiner Installation												
<b>Amount:</b>	\$4,166.50												

Sweep test of existing antenna	<table> <tr> <td data-bbox="692 174 1007 210"><b>Component Description:</b></td><td data-bbox="1139 174 1358 286">WTVS-280-Interim Antenna - Sweep Test</td></tr> <tr> <td data-bbox="692 297 807 333"><b>Amount:</b></td><td data-bbox="1139 297 1238 333">\$833.16</td></tr> <tr> <td data-bbox="692 434 1007 470"><b>Component Description:</b></td><td data-bbox="1139 434 1358 546">WTVS-280-Interim Antenna - Sweep Test</td></tr> <tr> <td data-bbox="692 557 807 593"><b>Amount:</b></td><td data-bbox="1139 557 1238 593">\$833.33</td></tr> <tr> <td data-bbox="692 694 1007 730"><b>Component Description:</b></td><td data-bbox="1139 694 1358 806">WTVS-280-Interim Antenna - Sweep Test</td></tr> <tr> <td data-bbox="692 817 807 853"><b>Amount:</b></td><td data-bbox="1139 817 1257 853">\$1,666.84</td></tr> </table>	<b>Component Description:</b>	WTVS-280-Interim Antenna - Sweep Test	<b>Amount:</b>	\$833.16	<b>Component Description:</b>	WTVS-280-Interim Antenna - Sweep Test	<b>Amount:</b>	\$833.33	<b>Component Description:</b>	WTVS-280-Interim Antenna - Sweep Test	<b>Amount:</b>	\$1,666.84				
<b>Component Description:</b>	WTVS-280-Interim Antenna - Sweep Test																
<b>Amount:</b>	\$833.16																
<b>Component Description:</b>	WTVS-280-Interim Antenna - Sweep Test																
<b>Amount:</b>	\$833.33																
<b>Component Description:</b>	WTVS-280-Interim Antenna - Sweep Test																
<b>Amount:</b>	\$1,666.84																
New combiner, cost per channel (without antenna)	<table> <tr> <td data-bbox="692 983 1007 1019"><b>Component Description:</b></td><td data-bbox="1139 983 1358 1095">WTVS-280-Interim Antenna - New Combiner</td></tr> <tr> <td data-bbox="692 1106 807 1142"><b>Amount:</b></td><td data-bbox="1139 1106 1273 1142">\$24,454.16</td></tr> <tr> <td data-bbox="692 1243 1007 1279"><b>Component Description:</b></td><td data-bbox="1139 1243 1350 1355">PARTIAL PAYMENT FOR NEW COMBINER</td></tr> <tr> <td data-bbox="692 1366 807 1402"><b>Amount:</b></td><td data-bbox="1139 1366 1187 1402">N/A</td></tr> <tr> <td data-bbox="692 1503 1007 1538"><b>Component Description:</b></td><td data-bbox="1139 1503 1358 1615">WTVS-280-Interim Antenna - New Combiner</td></tr> <tr> <td data-bbox="692 1626 807 1662"><b>Amount:</b></td><td data-bbox="1139 1626 1273 1662">\$38,333.50</td></tr> <tr> <td data-bbox="692 1762 1007 1798"><b>Component Description:</b></td><td data-bbox="1139 1762 1366 1834">25% downpayment on component</td></tr> <tr> <td data-bbox="692 1845 807 1881"><b>Amount:</b></td><td data-bbox="1139 1845 1273 1881">\$19,166.67</td></tr> </table>	<b>Component Description:</b>	WTVS-280-Interim Antenna - New Combiner	<b>Amount:</b>	\$24,454.16	<b>Component Description:</b>	PARTIAL PAYMENT FOR NEW COMBINER	<b>Amount:</b>	N/A	<b>Component Description:</b>	WTVS-280-Interim Antenna - New Combiner	<b>Amount:</b>	\$38,333.50	<b>Component Description:</b>	25% downpayment on component	<b>Amount:</b>	\$19,166.67
<b>Component Description:</b>	WTVS-280-Interim Antenna - New Combiner																
<b>Amount:</b>	\$24,454.16																
<b>Component Description:</b>	PARTIAL PAYMENT FOR NEW COMBINER																
<b>Amount:</b>	N/A																
<b>Component Description:</b>	WTVS-280-Interim Antenna - New Combiner																
<b>Amount:</b>	\$38,333.50																
<b>Component Description:</b>	25% downpayment on component																
<b>Amount:</b>	\$19,166.67																

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, elliptically or circularly polarized	<b>Component Description:</b>  <b>Amount:</b>	WTVS-280-Interim Antenna - UHF High Power Side Mount, E-POL \$16,114.45
	<b>Component Description:</b>  <b>Amount:</b>	WTVS-280-Interim Antenna - UHF High Power Side Mount, E-POL \$22,500.00
	<b>Component Description:</b>  <b>Amount:</b>	PARTIAL PAYMENT ON UHF HIGH POWER SIDE MOUNT ANTENNA N/A
	<b>Component Description:</b>  <b>Amount:</b>	CAPITAL CONTRIBUTION - DETROIT - OAK PARK T1 MI / 282678 / ASSET#282678-BT1 / OAA711327 / FID 1003429 / WTVS Channel 20 Phase 8 / MILESTONE 1 / BROADCAST REPACK / TAX ID: 65-0723837 \$97,901.75

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>	UHF - High Power Top Mount
	<b>Amount:</b>	\$93,295.12
	<b>Component Description:</b>	UHF - High Power Top Mount
	<b>Amount:</b>	\$93,295.12
Sweep test of existing antenna	<b>Component Description:</b>	WTVS-210-Primary Antenna - Sweep Test
	<b>Amount:</b>	\$2,046.67
	<b>Component Description:</b>	25% downpayment on component
	<b>Amount:</b>	\$833.33
	<b>Component Description:</b>	WTVS-210-Primary Antenna - Sweep Test
	<b>Amount:</b>	\$2,880.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b>	WTVS-210-Primary Antenna - Elbow Complex, 6 1/8"
	<b>Amount:</b>	\$5,386.50
	<b>Component Description:</b>	WTVS-210-Primary Antenna - Elbow Complex, 6 1/8"
	<b>Amount:</b>	\$5,386.50

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$331,335.00	\$123,668.30		\$123,668.30	
Rigid Transmission Line - copper, 7 3/16" broadband	\$331,335.00	\$123,668.30	see Estimated Cost Justification WTVS-380-Interim Transmission Line - Rigid, Copper, 7 3_16 v0	\$123,668.30	N/A
Primary Transmission Line	\$242,400.00	\$230,400.00		\$176,171.62	
Rigid Transmission Line - copper, 6 1/8"	\$242,400.00	\$230,400.00	N/A	\$176,171.62	N/A
Sub-total	\$573,735.00	\$354,068.30	N/A	\$299,839.92	N/A
Total for all systems	\$4,131,708.46	\$3,264,415.02	N/A	\$2,348,475.61	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line - copper, 7 3/16" broadband	<b>Component Description:</b>		WTVS-380-Interim Transmission Line - Rigid, Copper, 7 3 /16"
	<b>Amount:</b>		\$44,913.05
	<b>Component Description:</b>		WTVS-380-Interim Transmission Line - Rigid, Copper, 7 3 /16"
	<b>Amount:</b>		\$52,503.50
	<b>Component Description:</b>		PARTIAL PAYMENT FOR RIGID TRANSMISSION LINE
	<b>Amount:</b>		\$26,251.75
Rigid Transmission Line - copper, 6 1/8"	<b>Component Description:</b>		WTVS-310-Primary Transmission Line - Rigid, Copper, 6 1 /8"
	<b>Amount:</b>		\$88,085.81
	<b>Component Description:</b>		WTVS-310-Primary Transmission Line - Rigid, Copper, 6 1 /8"
	<b>Amount:</b>		\$88,085.81



## 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
<b>Primary Tower</b>	<b>\$838,027.50</b>	<b>\$807,727.50</b>		<b>\$310,959.56</b>	
<b>GTOWER</b>					
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	\$292,192.90	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$4,166.66	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$14,600.00	Please remove \$14,600 entry for Tower Mapping & Structural Engineering as FCC did not like two invoices attached in one request.
Tower Helicopter Lift	<b>\$232,727.50</b>	\$232,727.50	Please see attached Dielectric Change Order 169750 and WTVS PO 13-1727	N/A	N/A
<b>Sub-total</b>	<b>\$838,027.50</b>	<b>\$807,727.50</b>	N/A	<b>\$310,959.56</b>	N/A

<b>Total for all systems</b>	\$4,131,708.46	\$3,264,415.02	N/A	\$2,348,475.61	N/A
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**Components**

<b>Actual Information</b>	
<b>Description</b>	<b>File Name</b>

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)		
	<b>Component Description:</b>	WTVS-410-Existing Primary Tower - Tower Rigging, Complex Tower
	<b>Amount:</b>	\$28,816.66
	<b>Component Description:</b>	WTVS-410-Existing Primary Tower - Tower Rigging, Complex Tower
	<b>Amount:</b>	\$27,500.00
	<b>Component Description:</b>	WTVS-410-Existing Primary Tower - Tower Rigging, Complex Tower
	<b>Amount:</b>	\$106,363.12
	<b>Component Description:</b>	Tower Permit Drawing Package
	<b>Amount:</b>	\$9,400.00
	<b>Component Description:</b>	25% downpayment on component
	<b>Amount:</b>	\$13,750.00
	<b>Component Description:</b>	WTVS-410-Existing Primary Tower - Tower Rigging, Complex Tower
	<b>Amount:</b>	\$106,363.12

Minor tower reinforcement /modifications	<div> <b>Component Description:</b> WTVS-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications         </div> <div> <b>Amount:</b> \$1,166.66         </div>
	<div> <b>Component Description:</b> WTVS-410-Existing Primary Tower - Minor Tower Reinforcement /Modifications         </div> <div> <b>Amount:</b> \$2,000.00         </div>
	<div> <b>Component Description:</b> 25% downpayment on component         </div> <div> <b>Amount:</b> \$1,000.00         </div>
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<div> <b>Component Description:</b> Broadcast structural         </div> <div> <b>Amount:</b> \$6,333.00         </div> <div> <b>Component Description:</b> TOWER MAPPING &amp; STRUCTURAL ENGINEERING         </div> <div> <b>Amount:</b> N/A         </div> <div> <b>Component Description:</b> Broadcast Tower Mapping Detroit OakPark Broadcast Repack Line 2         </div> <div> <b>Amount:</b> \$8,267.00         </div>
Tower Helicopter Lift	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>\$182,430.00</b>	<b>\$178,725.00</b>		<b>\$101,284.63</b>	
RF System Test	<i>\$5,000.00</i>	\$5,000.00	Please see American Towers LLC Project Cost Estimation	\$3,333.33	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$2,500.00	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$300.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	\$407.50	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	\$90.00	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	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,800.00	see Estimated Cost Justification WTVS-590-Transition Timing and Coordination v0	\$2,800.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$1,707.75	N/A
Site Coordination meeting	<b>\$2,500.00</b>	\$2,500.00	N/A	\$2,500.00	N/A

Project management of the transition	\$109,020.00	\$109,175.00	Quote Widelity Project Management and ATC PO 13-1647 permit filing services	\$86,596.05	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$1,050.00	N/A
<b>Sub-total</b>	\$182,430.00	\$178,725.00	N/A	\$101,284.63	N/A
<b>Total for all systems</b>	\$4,131,708.46	\$3,264,415.02	N/A	\$2,348,475.61	N/A

## Components

Actual Information	
Description	File Name
RF System Test	<p><b>Component Description:</b> WTVS-590-RF System Test</p> <p><b>Amount:</b> \$3,333.33</p>

RF Exposure Measurements	<table> <tr> <td data-bbox="707 174 1015 208"><b>Component Description:</b></td><td data-bbox="1147 174 1345 365">WTVS-580-Field Engineering Service - Rf Exposure Measurements</td></tr> <tr> <td data-bbox="707 376 815 409"><b>Amount:</b></td><td data-bbox="1147 376 1265 409">\$1,666.67</td></tr> <tr> <td data-bbox="707 517 1015 551"><b>Component Description:</b></td><td data-bbox="1147 517 1289 622">25% down payment for component</td></tr> <tr> <td data-bbox="707 633 815 667"><b>Amount:</b></td><td data-bbox="1147 633 1246 667">\$833.33</td></tr> </table>	<b>Component Description:</b>	WTVS-580-Field Engineering Service - Rf Exposure Measurements	<b>Amount:</b>	\$1,666.67	<b>Component Description:</b>	25% down payment for component	<b>Amount:</b>	\$833.33
<b>Component Description:</b>	WTVS-580-Field Engineering Service - Rf Exposure Measurements								
<b>Amount:</b>	\$1,666.67								
<b>Component Description:</b>	25% down payment for component								
<b>Amount:</b>	\$833.33								
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	<table> <tr> <td data-bbox="707 806 1015 840"><b>Component Description:</b></td><td data-bbox="1147 806 1358 918">FCC repack: Analysis of WTVS impact</td></tr> <tr> <td data-bbox="707 929 815 963"><b>Amount:</b></td><td data-bbox="1147 929 1246 963">\$225.00</td></tr> <tr> <td data-bbox="707 1070 1015 1104"><b>Component Description:</b></td><td data-bbox="1147 1070 1345 1176">FCC repack Review of WTVS 399</td></tr> <tr> <td data-bbox="707 1187 815 1220"><b>Amount:</b></td><td data-bbox="1147 1187 1230 1220">\$75.00</td></tr> </table>	<b>Component Description:</b>	FCC repack: Analysis of WTVS impact	<b>Amount:</b>	\$225.00	<b>Component Description:</b>	FCC repack Review of WTVS 399	<b>Amount:</b>	\$75.00
<b>Component Description:</b>	FCC repack: Analysis of WTVS impact								
<b>Amount:</b>	\$225.00								
<b>Component Description:</b>	FCC repack Review of WTVS 399								
<b>Amount:</b>	\$75.00								
ASR modification (prepare FCC Form 854)	Information not provided.								
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.								



Attorney Fees - Negotiation of lease and other matters for shared locations	<b>Component Description:</b> Television Repacking Services-WTVS <b>Amount:</b> \$90.00	
	<b>Component Description:</b> Invoice for legal services <b>Amount:</b> \$90.00	
	<b>Component Description:</b> Legal Services - Television Repacking Services - WTVS <b>Amount:</b> \$77.50	
	<b>Component Description:</b> Television Repacking Services - WTVS <b>Amount:</b> \$90.00	
	<b>Component Description:</b> Television Repacking Services - WTVS <b>Amount:</b> \$60.00	
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	<b>Component Description:</b> Television Repacking Services <b>Amount:</b> \$90.00	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Perform engineering study for new channel assignment and antenna development	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	<b>Component Description:</b>  <b>Amount:</b>	WTVS-590- Transition Timing and Coordination \$2,500.00   Legal Services \$300.00
Prepare and or review reimbursement form	<b>Component Description:</b>  <b>Amount:</b>	Legal services to prepare and review reimbursement form in addition to review & filing reports \$1,617.75   Legal services \$90.00

Site Coordination meeting		
	<b>Component Description:</b>	WTVS-590-Site Coordination Meeting
	<b>Amount:</b>	\$625.00
	<b>Component Description:</b>	WTVS-590-Site Coordination Meeting
	<b>Amount:</b>	\$1,250.00
Project management of the transition		
	<b>Component Description:</b>	25% downpayment for this component
	<b>Amount:</b>	\$625.00
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$2,590.10
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$8,134.35
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$2,802.70
	<b>Component Description:</b>	project management
	<b>Amount:</b>	\$1,152.50
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$4,210.05

<b>Component Description:</b>	project management
<b>Amount:</b>	\$4,293.90

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$3,287.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,221.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,962.90

<b>Component Description:</b>	PO Line 1 - NTP Billable - Project Mgmt
<b>Amount:</b>	\$9,480.00

<b>Component Description:</b>	WTVS-510-Project Management
<b>Amount:</b>	\$1,250.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,064.85

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$3,512.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$5,909.75

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,591.50

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,779.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,170.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,760.70

<b>Component Description:</b>	WTVS-510-Project Management
<b>Amount:</b>	\$2,500.00

<b>Component Description:</b>	Please deny this component
<b>Amount:</b>	N/A

<b>Component Description:</b>	25% downpayment for work being done by American Tower
<b>Amount:</b>	\$1,250.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,411.75

	<b>Component Description:</b>		CONSULTING WORK WITH STAFF TO CREATE A REPACK FACT SHEET.
	<b>Amount:</b>		\$450.00
	<b>Component Description:</b>		Project Management
	<b>Amount:</b>		\$3,642.90
	<b>Component Description:</b>		Project Management
	<b>Amount:</b>		\$3,166.55
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.		
Prepare request for Special Temporary Authorization	<b>Component Description:</b>		Preparation of STA Application for Operation
	<b>Amount:</b>		\$1,050.00

## 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
<b>Other Expenses</b>	<b>\$247,328.80</b>	<b>\$246,778.80</b>		<b>\$112,307.00</b>	
Site Security	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Lift equipment rental	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Interim antenna tower lease	<i>\$65,148.39</i>	\$65,148.39	American Tower cost estimate; DPTV WTVS-610-Interim Antenna Tower Lease Budget Increase Justification	\$57,600.00	N/A
Interim antenna connection	<i>\$29,799.31</i>	\$29,799.31	Please see Estimated Cost Justification WTVS-610-Interim Antenna Connection v0	\$29,799.31	N/A
Employee time	<i>\$75,081.10</i>	\$75,081.10	See Attachment	\$16,277.69	Please remove this component. It was resubmitted under outside professional services for repack

tower owner permits	<b>\$750.00</b>	\$750.00	N/A	\$750.00	N/A
MVPD Notification of Channel Change	<b>\$2,000.00</b>	\$2,000.00	N/A	\$1,250.00	N/A
Develop and air announcement of upcoming channel change	<b>\$5,000.00</b>	\$5,000.00	N/A	N/A	N/A
Equipment Storage	<b>\$8,000.00</b>	\$8,000.00	Outdoor covered storage for equipment and parts	\$2,880.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,750.00	N/A
Local Zoning	<b>\$10,000.00</b>	\$10,000.00	Permits and inspections	N/A	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
<b>Sub-total</b>	\$247,328.80	\$246,778.80	N/A	\$112,307.00	N/A
<b>Total for all systems</b>	\$4,131,708.46	\$3,264,415.02	N/A	\$2,348,475.61	N/A

## Components

Actual Information	
Description	File Name
Site Security	Information not provided.
Lift equipment rental	Information not provided.



Interim antenna tower lease	<b>Component Description:</b>	WTVS-610-Interim Antenna Tower Lease
	<b>Amount:</b>	\$14,400.00
	<b>Component Description:</b>	WTVS-610-Interim Antenna Tower Lease
	<b>Amount:</b>	\$28,800.00
	<b>Component Description:</b>	25% downpayment on this component
	<b>Amount:</b>	\$14,400.00
Interim antenna connection	<b>Component Description:</b>	50 Ohm 2 Way N Power Divider from 500 MHz to 1,000 MHz rated at 10 watts
	<b>Amount:</b>	\$151.66
	<b>Component Description:</b>	#2 Acid brush 1/2" x 6"
	<b>Amount:</b>	\$105.00
	<b>Component Description:</b>	50 Ohm 2 Way N Power Divider From 500 MHz to 1,000 MHz Rated at 10 watts
	<b>Amount:</b>	\$583.04
	<b>Component Description:</b>	18-8 stainless steel hex head screw
	<b>Amount:</b>	\$66.89

<b>Component Description:</b>	Hoist block and tackle
<b>Amount:</b>	\$58.29

<b>Component Description:</b>	N Male Right Angle to N Male Right Angle Cable Using LMR-400 Coax and Times Connectors
<b>Amount:</b>	\$875.12

<b>Component Description:</b>	Switch WR1500 H Plane 115 VAC 60000 SER
<b>Amount:</b>	\$20,095.80

<b>Component Description:</b>	Clevis Hanger 1 1/4 IN. 215LB Max Load
<b>Amount:</b>	\$66.73

<b>Component Description:</b>	Hot-water hose, medium-pressure
<b>Amount:</b>	\$111.66

<b>Component Description:</b>	Interim antenna connection
<b>Amount:</b>	\$315.53

<b>Component Description:</b>	BPME4M-UH BPME 4-1/16" Flanged
<b>Amount:</b>	\$7,032.75

	<b>Component Description:</b> Insulator Conductor Adapter 4 1/16" Thin-Stand <b>Amount:</b> \$336.84
Employee time	<b>Component Description:</b> Project Management <b>Amount:</b> \$5,558.54  <b>Component Description:</b> Employee Time <b>Amount:</b> \$5,822.18  <b>Component Description:</b> Project Management <b>Amount:</b> \$4,896.97  <b>Component Description:</b> this component should be removed <b>Amount:</b> \$450.00
tower owner permits	<b>Component Description:</b> Building permit <b>Amount:</b> \$750.00
MVPD Notification of Channel Change	<b>Component Description:</b> WTVS-610-MVPD Notification <b>Amount:</b> \$1,250.00
Develop and air announcement of upcoming channel change	Information not provided.

Equipment Storage	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> WTVS-610-Equipment Storage  \$1,440.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> WTVS-610-Equipment Storage  \$1,440.00 </div> </div>
DTV Medical Facility Notification	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Medical Notification  \$3,750.00 </div> </div>
Local Zoning	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$4,131,708.46	\$3,264,415.02
			\$2,348,475.61

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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>William Carignan</b> <i>Controller</i></p> <p>04/09/2020</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>William Carignan</b> <i>Controller</i></p> <p>04/09/2020</p>

## Attachments