



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **73263** | Service: **DTV** | Call **WMHT** | Channel: **25 (UHF)** |  
ID: | Sign: |  
File **0000027901**  
Number:  
FRN: **0006595441** | Date **02/27**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WMHT EDUCATIONAL TELECOMMUNICATIONS</b> Doing Business As: WMHT	ROBERT ALTMAN 4 GLOBAL VIEW TROY, NY 12180 United States	+1 (518) 880-3400	raltman@wmht. 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>Matt Saplin</b> <i>Chief Engineer</i> <i>WMHT Educational</i> <i>Telecommunications</i>	Matt Saplin 4 Global View Troy, NY 12180 United States	+1 (518) 880- 3472	msaplin@wmht. 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	Replace IOT Transmitter and associated equipment. AUX antenna and transmission line, add combiner for WTEN. Replace main transmission line to combiner, combiner and shared transmission line to antenna. Add AC and electric to transmitter room.

**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	Paragon
	Year	2005
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 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	THU9evo
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31 kW
	Justification for New Transmitter	Cost of re-tuning and replacing exciters exceeds cost of new transmitter.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	Unsure of new electrical requirements
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	30 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>MASK Filter</b>	Channel Change requires new mask filter (prior cut for Channel 34)

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	THUevo
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	15.5 kW
	Justification for New Transmitter	need to have a transmitter to use while the existing transmitter room and transmission system /combiner is rebuilt for the new channel due to room constraints

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	No

	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	20 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	Yes

**Interim Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**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	Retune Existing
	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?	Yes
	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	Broadband Panel
	Number of Stations Supported	4
	Number of Panels	60
	Design power capacity in use	100.0 %
	Lower Limit	470.00 MHz

Upper Limit	698.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	105.0 kW
Manufacturer	Dielectric
Model	TUD-05-12 /60H-1-B
Year	2005

**Facility ID's and Call Signs of  
all stations with whom the  
antenna is shared.**

Facility ID	Call Sign
11970	WXXA-TV
73264	WCWN
73942	WRGB
74422	WTEN

**Primary  
Antenna**

**Adjustment to Existing Antenna**

Section	Question	Response
<b>Sweep Test of Existing Antenna</b>	Do you need a sweep test of existing antenna?	Yes

**Primary  
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

**Enter a list of RF channel numbers.**

RF Channel Number
24
22
25

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Auxiliary  
Antenna****Add Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	WMHT Aux Antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	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) .....	19.0 kW

Manufacturer	
Model	DCA
Year	2005

## Auxiliary Antenna

### New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Aux antenna
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	512.00 MHz
	Upper Limit	600.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	20.0 kW
	Manufacturer	

Model	TU Deltastar
Year	2017
Justification for New Antenna	WMHT aux is for channel 34 only, WTEN does not have an aux antenna or back up facility needed for repack transition

## Auxiliary 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	2
	Frequencies of channels supported	Upper and lower frequency
	Frequency	530.0 MHz - 542.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	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?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Auxiliary 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

# Auxiliary Transmission Line

## Add Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Aux transmission line
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other 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	0
	Length	347 feet per run

**Auxiliary**      **New Transmission Line**  
**Transmission Line**      **Section**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Auxiliary (Backup)
	Description of Use	new channel tx line
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	550 feet per run
	Justification for New Transmission Line	existing tx line for channel 34 only. WTEN does not have an aux or back up needed for repack /transition

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

**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?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	600 feet per run

**Facility ID's and Call Signs of all stations with whom the transmission line is shared.**

Facility ID	Call Sign
74422	WTEN
11970	WXXA-TV

73264	WCWN
73942	WRGB

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	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	600 feet per run
	Justification for New Transmission Line	Existing transmission line does not support all the new channels assigned by the repack

Primary  
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?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 37' 31.3" N-
	Longitude (NAD83)	074° 00' 36.7" W-
	Overall Structure Height	499.01 feet
	Support Structure Height	495.07 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1780.82 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Capital Region Broadcasters, LLC
	Date Constructed	05/31/2002

**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
73942	WRGB	DTV
73363	WNYT	DTV
73264	WCWN	DTV
11970	WXXA-TV	DTV
74422	WTEN	DTV
73266	WMHT-FM	FM

## 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	N/A
Helicopter Services Required	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	500
	Explanation	We are a PBS station with only one engineer and may need assistance throughout the repack process. After reviewing the time spent last year, we need to increase the amount for project management (not using an outside engineer)
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No

	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	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	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No

	Number of Days	N/A
	Justification	N/A

**Outside Other Professional Services Expenses Not Listed**

<b>Professional Services Costs</b>	
<b>Name</b>	<b>Description</b>
<b>In house project management and time</b>	Unable to hire a consultant for the repack so we are doing the project management and work in house
<b>Travel to Transmitter School</b>	Rohde and Schwartz provides training to engineers upon purchase of a transmitter- This line item is for the travel, tolls and meals to the school

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

**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
<b>Rigging</b>	For new main combiner and transmission line
<b>Facility Heat</b>	The facility has been heated by the WMHT and WTEN tube transmitters excess heat. Now that they are being replaced by solid state transmitters, there will no longer be any heat in the building without adding a new heat system.

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
Interim Transmitter THUevo	\$1,022,000.00	\$738,255.36		\$523,706.01	
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	\$0.00	N/A
20 Ton system	\$115,500.00	\$110,000.00	N/A	\$107,432.50	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	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 14.2 - 20 kW	\$684,000.00	\$416,955.36	Interim transmitter needed to stay on the air while main transmitter replaced and transmission line /combiner replaced, tested, etc.	\$416,273.51	N/A
Primary Transmitter THU9evo	\$1,204,000.00	\$1,051,000.00		\$968,330.54	
MASK Filter	\$31,000.00	\$31,000.00	N/A	N/A	N/A

30 Ton system	\$166,000.00	\$158,000.00	Existing 'custom' air conditioner will need to be removed to make room for the new equipment	\$107,432.50	Please check the transmittal which has Walters J611B with action - request more information (the second Walters) this item does not fit the category within budget and The V Co. AC contract approved
Other Electrical Service: Unsure of new electrical requirements	<b>\$60,000.00</b>	\$60,000.00	Costs of electrical and decommissioning work of our old transmitters (high voltage transformers, electrical panels. Also included is an electrical project manager to oversee this aspect. We were not aware when we were budgeting this project all the issue.	\$59,152.00	This is a new item for the project. When we originally budgeted we did not realize that we would have additional decommissioning expense dumps charges electrical project manager charge
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$802,000.00	I have included the equipment package drawings that Rohde and Schwarz have developed for the transmitter site. Please look at the actual invoices for substantiation of the estimated cost	\$801,746.04	The Rohde and Schwarz invoice for the drawings created overage. I will remove the Rohde and Schwarz name is in the drawing and the attachment doesn't have the information required

<b>Sub-total</b>	\$2,226,000.00	\$1,789,255.36	N/A	\$1,492,036.55	N/A
<b>Total for all systems</b>	\$4,226,989.60	\$2,468,962.96	N/A	\$1,837,203.22	N/A

## Components

Actual Information	
Description	File Name
UHF inside RF system including switching	Information not provided.
20 Ton system	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Interim Transmitter Replacement AC Unit Libert#1 - includes Labor , Materials and Subcontractors   \$107,432.50 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> N/A  N/A </div> </div>
Transformer 3 phase/480v - 300 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> 25% down payment 15.5 kW /14.5 kW of MD Transmitter System   \$104,068.38 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 75% of the 15.5kW /14.5kW OFMD Transmitter System Interim   \$312,205.13 </div> </div>

MASK Filter	Information not provided.	
30 Ton system	<p><b>Component Description:</b></p> <p>Primary Transmitter Replacement AC Unit. Both the Primary and backup are the same tonnage and the vendor quote for both units combined are on page 36 of the PDF</p> <p><b>Amount:</b></p> <p>\$107,432.50</p> <p><b>Component Description:</b></p> <p>Primary Transmitter Replacement AC Unit</p> <p><b>Amount:</b></p> <p>\$107,432.50</p>	
Other Electrical Service: Unsure of new electrical requirements	<p><b>Component Description:</b></p> <p>We have put a new line item in the 399 to accommodate this invoice- as when we were writing the budget, we did not anticipate these expenses</p> <p><b>Amount:</b></p> <p>\$59,152.00</p>	

UHF - Liquid Cooled Solid  
State Transmitter 21 - 31  
kW

**Component Description:**

25% down of the  
main transmitter-  
PO and Quote also  
attached

**Amount:**

\$196,481.32

**Component Description:**

75% of the  
payment for the 31k  
/W ATSC/28kw  
OFDM Transmitter  
System

**Amount:**

\$589,443.98

**Component Description:**

Detailed drawing  
Package of the  
WMHT Transmitter  
Site

**Amount:**

\$15,820.74

**Component Description:**

Detailed drawing -  
comprehensive  
coverage field study

**Amount:**

\$15,820.74

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Antenna TUD-05-12 /60H-1-B</b>	<b>\$1,019,140.00</b>	<b>\$68,029.00</b>		<b>\$60,641.39</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$0.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$6,800.00	1/3 of the cost.	\$6,120.00	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$53,335.00	1/3 of the cost	\$46,841.39	N/A

Sweep test of existing antenna	\$6,730.00	\$7,894.00	Additional sweeps than what was originally budgeted, were done due to some tower issues	\$7,680.00	The estimate was for 30% down, this invoice is for 45% down
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, horizontally polarized	\$778,000.00	\$0.00	N/A	N/A	N/A
<b>Auxiliary Antenna TU Deltastar</b>	<b>\$339,109.60</b>	<b>\$111,813.60</b>		<b>\$98,979.19</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$13,320.00	required for new side mount aux antenna	\$11,988.00	N/A

Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$7,024.00	required as per RF sweep	\$6,321.60	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	N/A	N/A	N/A
UHF â€“ Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized	<b>\$2,000.00</b>	\$2,000.00	This is a duplicate line- please ignore	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,599.99	N/A

UHF – Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized	<b>\$78,069.60</b>	\$78,069.60	***System Notice: Estimate adjusted and locked because line has been superseded. ***Our current aux antenna is cut for channel 34 only (reference RF sweep) and will need to be replaced for our new channel	\$78,069.60	N/A
<b>Sub-total</b>	\$1,358,249.60	\$179,842.60	N/A	\$159,620.58	N/A
<b>Total for all systems</b>	\$4,226,989.60	\$2,468,962.96	N/A	\$1,837,203.22	N/A

## Components

Actual Information	
Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.

<p>Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="713 100 1145 448"><b>Component Description:</b></td><td data-bbox="1145 100 1428 448">2nd invoice for the Combiner and equipment for the CRB- WMHT is paying 1/3 of the 2nd 45% down for Dielectric</td></tr> <tr> <td data-bbox="713 448 1145 560"><b>Amount:</b></td><td data-bbox="1145 448 1428 560">\$3,060.00</td></tr> <tr> <td data-bbox="713 560 1145 940"><b>Component Description:</b></td><td data-bbox="1145 560 1428 940">This invoice is for shared tower- CRB- WMHT is paying 1/3 of the invoice is 45% of the total- the elbow total is 9,180- WMHT is paying 3060</td></tr> <tr> <td data-bbox="713 940 1145 1043"><b>Amount:</b></td><td data-bbox="1145 940 1428 1043">\$3,060.00</td></tr> </table>	<b>Component Description:</b>	2nd invoice for the Combiner and equipment for the CRB- WMHT is paying 1/3 of the 2nd 45% down for Dielectric	<b>Amount:</b>	\$3,060.00	<b>Component Description:</b>	This invoice is for shared tower- CRB- WMHT is paying 1/3 of the invoice is 45% of the total- the elbow total is 9,180- WMHT is paying 3060	<b>Amount:</b>	\$3,060.00
<b>Component Description:</b>	2nd invoice for the Combiner and equipment for the CRB- WMHT is paying 1/3 of the 2nd 45% down for Dielectric								
<b>Amount:</b>	\$3,060.00								
<b>Component Description:</b>	This invoice is for shared tower- CRB- WMHT is paying 1/3 of the invoice is 45% of the total- the elbow total is 9,180- WMHT is paying 3060								
<b>Amount:</b>	\$3,060.00								
<p>Combiner output splitting /switching for dual feed lines, if applicable</p>	<p>Information not provided.</p>								
<p>New combiner, cost per channel (without antenna)</p>	<table> <tr> <td data-bbox="713 1198 1145 1456"><b>Component Description:</b></td><td data-bbox="1145 1198 1428 1456">Shared Combiner for the joint CRB tower- invoice is 45% of the cost; our share is 1/3.</td></tr> <tr> <td data-bbox="713 1456 1145 1568"><b>Amount:</b></td><td data-bbox="1145 1456 1428 1568">\$23,420.69</td></tr> <tr> <td data-bbox="713 1568 1145 1881"><b>Component Description:</b></td><td data-bbox="1145 1568 1428 1881">Shared combiner for the shared CRB tower-45% 2nd invoice; 1/3 of the cost- stations- WMHT; WCWN, WTEN</td></tr> <tr> <td data-bbox="713 1881 1145 1984"><b>Amount:</b></td><td data-bbox="1145 1881 1428 1984">\$23,420.70</td></tr> </table>	<b>Component Description:</b>	Shared Combiner for the joint CRB tower- invoice is 45% of the cost; our share is 1/3.	<b>Amount:</b>	\$23,420.69	<b>Component Description:</b>	Shared combiner for the shared CRB tower-45% 2nd invoice; 1/3 of the cost- stations- WMHT; WCWN, WTEN	<b>Amount:</b>	\$23,420.70
<b>Component Description:</b>	Shared Combiner for the joint CRB tower- invoice is 45% of the cost; our share is 1/3.								
<b>Amount:</b>	\$23,420.69								
<b>Component Description:</b>	Shared combiner for the shared CRB tower-45% 2nd invoice; 1/3 of the cost- stations- WMHT; WCWN, WTEN								
<b>Amount:</b>	\$23,420.70								

Sweep test of existing antenna

**Component Description:**

A sweep due to the combiner purchase for the shared tower- CRB- WTEN, WMHT and WCWN- this invoice is for 45% down, WMHT share is 1/3  
**Amount:** \$960.00

**Component Description:**

2nd 45% invoice from Dielectric for the shared combiner and associated equipment for the Shared CRB tower- WMHT, WCWN and WTEN are sharing this expense- each station's share is 1/3.  
**Amount:** \$960.00

**Component Description:**

45% of the Repack Sweep includes 1 Field Engineer on-Site for the Day, Travel, Expenses and Report  
**Amount:** \$2,880.00

**Component Description:**

Repack Sweep includes 1 Field Engineer on site for 1 day, travel expenses and report 45% down  
**Amount:** \$2,880.00

UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, horizontally polarized	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Product  400001435 45%  down  \$5,994.00 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> 45% down on  Product  #400001435  \$5,994.00 </div> </div>
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Product #  40001436 - 45%  down  \$3,160.80 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Product  #40001436 45%  down  \$3,160.80 </div> </div>
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
UHF " Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized	Information not provided.

Sweep test of existing antenna	<table> <tr> <td data-bbox="713 100 1145 488"><b>Component Description:</b></td><td data-bbox="1145 100 1428 488">WMHT Aux System Sweep Test; 3 stations on invoice- WMHT listed - which is 1 /3 of the total upon proposal acceptance</td></tr> <tr> <td data-bbox="713 488 1145 600"><b>Amount:</b></td><td data-bbox="1145 488 1428 600">\$866.66</td></tr> <tr> <td data-bbox="713 600 1145 1070"><b>Component Description:</b></td><td data-bbox="1145 600 1428 1070">Completion of the electrical report after the RF Sweep. Invoice split among the 3 stations WMHT, WTEN and WCWN. Vendor was unwilling to make separate invoices.</td></tr> <tr> <td data-bbox="713 1070 1145 1160"><b>Amount:</b></td><td data-bbox="1145 1070 1428 1160">\$1,733.33</td></tr> </table>	<b>Component Description:</b>	WMHT Aux System Sweep Test; 3 stations on invoice- WMHT listed - which is 1 /3 of the total upon proposal acceptance	<b>Amount:</b>	\$866.66	<b>Component Description:</b>	Completion of the electrical report after the RF Sweep. Invoice split among the 3 stations WMHT, WTEN and WCWN. Vendor was unwilling to make separate invoices.	<b>Amount:</b>	\$1,733.33
<b>Component Description:</b>	WMHT Aux System Sweep Test; 3 stations on invoice- WMHT listed - which is 1 /3 of the total upon proposal acceptance								
<b>Amount:</b>	\$866.66								
<b>Component Description:</b>	Completion of the electrical report after the RF Sweep. Invoice split among the 3 stations WMHT, WTEN and WCWN. Vendor was unwilling to make separate invoices.								
<b>Amount:</b>	\$1,733.33								
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized	<table> <tr> <td data-bbox="713 1160 1145 1317"><b>Component Description:</b></td><td data-bbox="1145 1160 1428 1317">Part #400001434 45% down</td></tr> <tr> <td data-bbox="713 1317 1145 1429"><b>Amount:</b></td><td data-bbox="1145 1317 1428 1429">\$39,034.80</td></tr> <tr> <td data-bbox="713 1429 1145 1585"><b>Component Description:</b></td><td data-bbox="1145 1429 1428 1585">Product 400001434 45% down</td></tr> <tr> <td data-bbox="713 1585 1145 1673"><b>Amount:</b></td><td data-bbox="1145 1585 1428 1673">\$39,034.80</td></tr> </table>	<b>Component Description:</b>	Part #400001434 45% down	<b>Amount:</b>	\$39,034.80	<b>Component Description:</b>	Product 400001434 45% down	<b>Amount:</b>	\$39,034.80
<b>Component Description:</b>	Part #400001434 45% down								
<b>Amount:</b>	\$39,034.80								
<b>Component Description:</b>	Product 400001434 45% down								
<b>Amount:</b>	\$39,034.80								

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$0.00	\$63,170.00		\$62,016.98	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$0.00	\$63,170.00	existing transmission line does not support the new channel assignments, this represents 1 /3 of the cost of 189,500	\$62,016.98	N/A
Auxiliary Transmission Line	\$0.00	\$42,105.00		\$37,894.50	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$0.00	\$42,105.00	existing transmission line does not support the new channel assignment.	\$37,894.50	N/A
Sub-total	\$0.00	\$105,275.00	N/A	\$99,911.48	N/A
Total for all systems	\$4,226,989.60	\$2,468,962.96	N/A	\$1,837,203.22	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line -  
copper, 8 3/16" broadband

**Component Description:**

Shared combiner  
and associated  
equipment for  
shared CRB  
tower- WMHT,  
WTEN and  
WCWN- 45% of  
total cost- 1/3  
WMHT share  
  
**Amount:** \$31,008.49

**Component Description:**

Shared combiner  
and misc  
equipment for the  
shared CRB  
tower- 2nd 45%  
invoice from  
Dielectric -  
WMHT's share is 1  
/3 of the expense  
  
**Amount:** \$31,008.49

Rigid Transmission Line -  
copper, 6 1/8" broadband

**Component Description:** RTLSCR3-20  
45% down  
**Amount:** \$1,399.28

**Component Description:** Product  
300006758 45%  
down; 1 penny  
rounding  
**Amount:** \$17,547.97

**Component Description:** Product  
#RTLSCR3-20  
45% down  
**Amount:** \$1,399.28

**Component Description:** Product  
#300006758 45%  
down.  
**Amount:** \$17,547.97

## 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 TOWER</b>	<b>\$254,800.00</b>	<b>\$82,395.00</b>		<b>\$5,724.67</b>	
Minor tower reinforcement /modifications	\$158,000.00	\$50,000.00	1/3 of the cost of \$150000	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$26,670.00	1/3 of the cost of \$80000	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$5,725.00	We needed another tower climb to understand what was on our tower; hence the tower climb which increased the cost.	\$5,724.67	We realized that as we were putting up new equipment, we needed to review the tower to understand the stresses- the total amount is not greater than the budgeted amount and the estimated amount has been adjusted.
<b>Sub-total</b>	<b>\$254,800.00</b>	<b>\$82,395.00</b>	N/A	<b>\$5,724.67</b>	N/A

<b>Total for all systems</b>	\$4,226,989.60	\$2,468,962.96	N/A	\$1,837,203.22	N/A
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## Components

<b>Actual Information</b>	
<b>Description</b>	<b>File Name</b>
Minor tower reinforcement /modifications	Information not provided.
Short Tower (less than 500')	Information not provided.

Structural engineering tower  
load study for well  
documented tower

**Component Description:**

Pdf includes travel  
backup. Invoice  
has been divided  
by 3 - Vendor has  
refused to issue 3  
separate invoices;  
these stations are  
being repacked in  
the same phase,  
total cost is being  
divided by 3.  
Justification on  
expense- last page  
\$1,558.00

**Amount:**

**Component Description:**

Tower climb of  
shared  
transmission  
tower- invoice  
divided by the 3  
stations  
\$1,558.00

**Amount:**

**Component Description:**

Tower mapping of  
our shared  
transmission tower  
/facility  
\$1,666.67

**Amount:**

**Component Description:**

Analysis of the  
435' Guyed Tower  
for WTEN, WMHT  
and WCWN split  
evenly among the  
3 stations  
\$2,500.00

**Amount:**

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	\$315,040.00	\$239,350.00		\$64,908.68	
Travel to Transmitter School	<i>\$1,600.00</i>	\$1,600.00	We will be sending 2 employees to this training. The first trip cost \$783.75. I assume the 2nd trip will be similarly priced.	\$783.75	N/A

In house project management and time	<b>\$90,000.00</b>	\$90,000.00	As we were unable to hire a consultant, this project is taking many more hours than we originally budgeted. This reforecast should take us to the end of the project.	\$49,378.43	Robert Cummings is an exempt employee and his hourly wage is predicated on 1,950 hours per year or 37.5 hours per week. Matt Sapli is an exempt employee and his hourly wage is predicated on 1,950 hours per year or 37.5 hours per week. Cuong Le is a non-employee
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$7,000.00	Currently our invoices (not submitted but will be) currently \$6,120. The actual invoices attached should be substantiation for the estimated costs	\$6,120.00	We need a group PO and purchase agreement as 2 of our vendors refused to take individual invoices but wanted 1 invoice with the individual amount broken out The POs then had to be approved by Nexsta and Sincla as we are on a joint tower
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$1,404.00	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$3,760.50	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$837.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$125.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$500.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$2,000.00	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	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$79,000.00	\$7,500.00	N/A	\$0.00	Please delete this invoice. This invoice has its own budget now so this portion can be deleted thanks.
<b>Sub-total</b>	\$315,040.00	\$239,350.00	N/A	\$64,908.68	N/A
<b>Total for all systems</b>	\$4,226,989.60	\$2,468,962.96	N/A	\$1,837,203.22	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Travel to Transmitter School	<b>Component Description:</b>	Travel exp incl. mileage, tolls, food and lodging to train at Rohde and Schwarz transmitter school- WMHT purchased a new transmitter as part of the repack
	<b>Amount:</b>	\$783.75
In house project management and time	<b>Component Description:</b>	Internal Labor for Feb 28, 2017. CRB LLC is the name of the Joint Tower org. that all the commercial /non-commercial are on..Monthly and weekly meetings are scheduled. Robert Cummings is the WMHT-CRB engineering representative
	<b>Amount:</b>	\$95.06
	<b>Component Description:</b>	Internal Labor-03 /31. CRB is the shared tower that all the TV stations are located on. Monthly and weekly meetings are scheduled. Cuong Le is the ET IV, Robert Cummings is the CRB-WMHT rep.
	<b>Amount:</b>	\$890.33

<b>Component Description:</b>	4/30/17 Internal Labor. CRB is the shared tower that all the broadcasters are on. Weekly and monthly meetings due to repack issues. WMHT, WTEN and WCWN are 3 stations that are being repacked in the same phase.
<b>Amount:</b>	\$1,389.50

<b>Component Description:</b>	6/17 Internal Labor. CRB or Capital Region Broadcasters is the name of the LLC of the shared tower of all the broadcasters in our local area. Meetings with vendors are common due to the repack and purchase of equip.
<b>Amount:</b>	\$1,959.98

<b>Component Description:</b>	11/17 Internal Labor. R&S or R/S is Rohde & Schwarz; CRB is the joint tower; Dielectric & PCI vendors
<b>Amount:</b>	\$3,343.26

<b>Component Description:</b>	2/18 Internal Labor. CRB is the joint/shared tower - much work being done at this site from R/S- Rohde &Schwarz to electricians (Lacorte) and Walters- Air conditioning along with issues with snow removal
<b>Amount:</b>	\$2,824.85

<b>Component Description:</b>	07/17 Internal Labor. CRB or Capital Region Broadcasters the joint/shared tower that all the broadcasters including. WMHT are on. Weekly meetings are common as there are many equip decisions to make.
<b>Amount:</b>	\$3,022.58

<b>Component Description:</b>	8/17 Internal Labor. Nexstar is the corporate owner of WTEN- one of the stations on the joint/shared CRB tower being repacked in the same phase.
<b>Amount:</b>	\$810.45

<b>Component Description:</b>	October 17 Internal Labor. Meetings with Rohde & Schwarz- listed as R/S meetings
<b>Amount:</b>	\$921.31

<b>Component Description:</b>	5/17 Internal Labor. CRB is the shared tower of the TV broadcasters. Meetings with vendors due to the repack are noted on this schedule.
<b>Amount:</b>	\$1,114.41

<b>Component Description:</b>	12/17 Internal Labor. Capital Region Broadcasters is the shared/joint tower that the local broadcasters share- clean up of the site and meetings part of the repack effort.
<b>Amount:</b>	\$4,209.58

<b>Component Description:</b>	all employees on one invoice per request
<b>Amount:</b>	\$526.83

<b>Component Description:</b>	9/17 Internal Labor- CRB is the joint/shared tower for all the broadcasters. Monthly, weekly and even daily meetings due to the repack. Matthew Saplin is the Assistant Chief Engineer.
<b>Amount:</b>	\$2,607.45

<b>Component Description:</b>	6/18 Internal Labor- More work at the CRB or Capital Region Broadcasters shared/joint tower. Install, proofing of Rohde & Schwarz transmitter w/ LaCorte electrical
<b>Amount:</b>	\$3,973.71

<b>Component Description:</b>	4/18 Internal Labor. Continued work with vendors at the CRB/Capital Region Broadcasters tower site. CRB /Capital Region is the shared tower /jointly owned tower.
<b>Amount:</b>	\$8,594.96

<b>Component Description:</b>	5/18 Internal Labor. Rohde & Schwarz installs, Dielectric delivery all at the CRB- Capital Region Broadcasters joint /shared tower.
<b>Amount:</b>	\$1,968.17

<b>Component Description:</b>	all 3 employees on one invoice as requested
<b>Amount:</b>	\$29,602.44

<b>Component Description:</b>	Second January 2018 invoice for labor. We submitted the first one with just December 2017- paid in 2018- see last page for detailed reason. CRB is joint /shared tower
<b>Amount:</b>	\$449.46

<b>Component Description:</b>	Cu Long ETV IV total of 100 hours at \$23.54 per hour
<b>Amount:</b>	\$2,354.00

<b>Component Description:</b>	3/18 Internal Labor. Continued Work at the CRB/ Capital Region Broadcasters (joint /shared tower) site- with equipment installs
<b>Amount:</b>	\$10,676.54

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RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.

Attorney Fees - Negotiation  
of lease and other matters  
for shared locations

**Component Description:**

Review Sinclair  
changes and  
finalized contract  
and group PO  
\$880.00

**Amount:**

**Component Description:**

Draft collective  
purchasing  
agreement for the  
shared equipment  
of WMHT, WTEN  
and WCWN  
\$4,800.00

**Amount:**

**Component Description:**

Reviewing the  
engineers  
regarding the  
collective  
purchasing  
agreement  
\$80.00

**Amount:**

**Component Description:**

Single invoice  
review after draft  
of collective  
purchasing  
agreement.  
\$80.00

**Amount:**

**Component Description:**

fees are for  
drafting a PO and  
agreement for all  
our shared  
equipment to be  
repacked We-  
WMHT, WTEN  
and WCWN are  
owners of the  
Capital Region  
Broadcasters LLC  
(aka CRB).  
\$280.00

**Amount:**

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<b>Component Description:</b>	<p>There are 2 sub-totals on this sheet- one for general legal and the other for the repack legal work. (aka transition reimbursable)- we are claiming just for the transition reimbursable</p>
	<b>Amount:</b>	\$1,404.00
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	<b>Component Description:</b>	<p>All expenses on this invoice is for the FCC Repack</p>
	<b>Amount:</b>	\$139.50
	<b>Component Description:</b>	<p>Television Repacking Expense broken out- other expenses are on this invoice</p>
	<b>Amount:</b>	\$1,944.00
	<b>Component Description:</b>	<p>Television repacking expense is segregated from the other expenses in this invoice. Only requesting \$39.00. EIN # changed due to change in corporate structure. New W-9 attached along with discussion.</p>
	<b>Amount:</b>	\$39.00

	<b>Component Description:</b>	This invoice has includes other expenses. The television repacking expense has been segregated.
	<b>Amount:</b>	\$351.00
	<b>Component Description:</b>	Television Repacking Expense is segregated from other invoice expenses.
	<b>Amount:</b>	\$195.00
	<b>Component Description:</b>	This invoice includes other expenses outside of the Television Repacking. The television repacking is only 975
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<b>Amount:</b>	\$975.00
	<b>Component Description:</b>	Television repacking expenses are segregated and other expenses are included
	<b>Amount:</b>	\$117.00
	<b>Component Description:</b>	Regarding transition reporting along with quarterly reporting
	<b>Amount:</b>	\$837.00

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	<p><b>Component Description:</b></p> <p>Prepare the engineering section of FCC Form 2100</p> <p><b>Amount:</b></p> <p>\$125.00</p>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<p><b>Component Description:</b></p> <p>Engineering study work for new channel assignment and antenna development</p> <p><b>Amount:</b></p> <p>\$250.00</p> <p><b>Component Description:</b></p> <p>Engineering study work for new channel assignment and antenna development</p> <p><b>Amount:</b></p> <p>\$250.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p><b>Component Description:</b></p> <p>Prepare the engineering section of FCC Form 2100</p> <p><b>Amount:</b></p> <p>\$2,000.00</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	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Prepare and or review reimbursement form	Information not provided.
Project management of the transition	<p><b>Component Description:</b> Please delete this invoice; the full amount of this invoice including this has its own line item- thanks.</p> <p><b>Amount:</b> \$2,800.00</p>

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$52,100.00</b>	<b>\$52,045.00</b>		<b>\$15,001.26</b>	
Facility Heat	<i>\$6,625.00</i>	\$6,625.00	1/3 cost of \$19,875 for new facility heat system, shared cost with WTEN and WCWN. Due to heat for the facility was being supplied by the old tube transmitters excess heat which are no longer there	N/A	N/A
Rigging	<i>\$13,335.00</i>	\$13,335.00	1/3 of the total cost of \$40000	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,000.00</i>	\$2,000.00	need to let our viewers know of the channel change	N/A	N/A

Equipment Storage	<b>\$9,000.00</b>	\$9,000.00	We do not have any place to store the equipment as it received	\$4,797.00	N/A
Equipment Delivery and Handling Charges	<b>\$10,000.00</b>	\$10,000.00	Unknown cost at this time	\$7,003.70	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$7,500.00</b>	\$7,500.00	Unknown cost at this time	\$3,200.56	The Rohde and Schwarz invoice has been moved to a separate line item in the 399; . The correct invoice is for \$3,038.56 Once the Rhode and Schwarz invoices are deleted then this line item is no longer in an overage situation
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

FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
<b>Sub-total</b>	\$52,100.00	\$52,045.00	N/A	\$15,001.26	N/A
<b>Total for all systems</b>	\$4,226,989.60	\$2,468,962.96	N/A	\$1,837,203.22	N/A

## Components

Actual Information	
Description	File Name
Facility Heat	Information not provided.
Rigging	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	<div> <b>Component Description:</b> Pallet Jack, Load Capacity 5000 lbs  Manufacturer #12U125- to move the equipment  <b>Amount:</b> \$917.00 </div> <div> <b>Component Description:</b> Storage Containers for the Repack Equipment  <b>Amount:</b> \$3,880.00 </div>
Equipment Delivery and Handling Charges	

**Component Description:** We needed snow removal at the site in order to receive the equipment- we had 3 noreasters in a row

**Amount:** \$1,240.00

**Component Description:** Rental of a fork-lift to move the new and old equipment at the site. Needed additional time due to the delivery of a transmitter cabinet

**Amount:** \$853.50

**Component Description:** Rental of one four wheel drive forklift- to move all the equipment new and old for the repack

**Amount:** \$1,670.00

**Component Description:** For moving transformer oil drums

**Amount:** \$340.20

**Component Description:** Rental of 1 four wheel drive forklift to move all the equipment new and old for the repack

**Amount:** \$1,450.00

	<p><b>Component Description:</b></p> <p>Rental of 1 four wheel drive forklift to move all the equipment old and new</p> <p><b>Amount:</b></p> <p>\$1,450.00</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b></p> <p>This for the expense of the safe disposal of the mineral oil from our Comark transmitter beam supply transformers- please delete other Safety - Kleen component</p> <p><b>Amount:</b></p> <p>\$3,038.56</p> <p><b>Component Description:</b></p> <p>Please delete this line item; this entire invoice has been moved to a separate budget item</p> <p><b>Amount:</b></p> <p>\$1,900.00</p> <p><b>Component Description:</b></p> <p>Needed more barrels for the used oil- purchased used barrels on line via Craig's list- no quote available</p> <p><b>Amount:</b></p> <p>\$97.20</p> <p><b>Component Description:</b></p> <p>Safe disposal of the mineral oil from Comark transmitter</p> <p><b>Amount:</b></p> <p>\$2,813.48</p>

	<div> <div> <b>Component Description:</b> </div> <div> Please delete this line item- the entire invoice has been moved to a separate line item. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$54,452.00 </div> </div> <div> <div> <b>Component Description:</b> </div> <div> Used barrels to store transmitter oil- purchased on Craig's List - no quote as this was purchased used and on-line </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$64.80 </div> </div>
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	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>	\$4,226,989.60	\$2,468,962.96
			\$1,837,203.22

<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>Julie Raskin</b>  <i>VP Finance and Accounting</i></p> <p>02/27/2019</p>

## Attachments