



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **73263** | Service: **DTV** | Call **WMHT** | Channel: **25 (UHF)** |  
ID: | Sign:  
File **000027901**  
Number:  
FRN: **0006595441** | Date **02/25**  
Submitted: **/2020**

## 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>Keith Martin</b> <i>Director of Technology WMHT Educational Telecommunications</i>	Keith Martin 4 Global View Troy, NY 12180 United States	+1 (518) 880- 3472	kmartin@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
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

**Primary  
Transmitter**

**Existing Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<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
<b>New Transmitter</b>	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 excitors exceeds cost of new transmitter.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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 Filter 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
<b>New Transmitter</b>	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
<b>Electrical Service</b>	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
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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

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22

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25

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**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Auxiliary  
Antenna**

**Add Antenna Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<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

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Manufacturer	
Model	DCA
Year	2005

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**Auxiliary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Types</b>	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
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	347 feet per run

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

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  
Transmission  
Line**      **Other Transmission Line Expenses Not Listed**

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
73942	WRGB
74422	WTEN

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11970	WXXA-TV
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73264	WCWN
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**Primary  
Transmission  
Line**      **New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	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
<b>Existing Tower Description</b>	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
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	No
	ASR Number	
<b>Coordinates (NAD83 ( North American Datum of 1983))</b>	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
11970	WXXA-TV	DTV
73264	WCWN	DTV
73363	WNYT	DTV
73942	WRGB	DTV
74422	WTEN	DTV
73266	WMHT-FM	FM

**Primary Tower**

**Tower Modification Costs**

Section	Question	Response
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for documented tower
<b>Tower Reinforcements</b>	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
<p><b>Outside Project Management Services</b></p>	<p>Do you require outside project management services?</p>	<p>Yes</p>
	<p>Number of Hours</p>	<p>500</p>
	<p>Explanation</p>	<p>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)</p>
<p><b>Outside RF consulting Engineering Services</b></p>	<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC Construction Permit Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>Yes</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC License to Cover Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>Yes</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare request for Special Temporary Authority</p>	<p>No</p>

	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  
Professional  
Services  
Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
<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**

<b>Name</b>	<b>Description</b>
<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.
<b>Finance and Accounting Expense</b>	Salary expense for the Finance/Accounting team to enter the materials for the 399 effort and to track the reimbursements
<b>Mezzanine Construction</b>	A mezzanine needed to be constructed to hold the multichannel combiner
<b>Rigging</b>	For new main combiner and transmission line
<b>Transmitter Exciter Input</b>	Equipment to properly feed the new transmitter exciters

**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>Interim Transmitter THUevo</b>	<b>\$1,022,000.00</b>	<b>\$738,255.36</b>		<b>\$523,706.01</b>	
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	\$0.00	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
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
<b>Primary Transmitter THU9evo</b>	<b>\$1,204,000.00</b>	<b>\$1,011,000.00</b>		<b>\$976,960.54</b>	
MASK Filter	<i>\$31,000.00</i>	\$31,000.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$812,000.00	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. I have included proof of performance and Harmonic Filter	\$810,376.04	The Rohde Schwarz invoice for the drawings created overage. I remove the Rohde Schwarz name is in and the attachment doesn't have the info required
Other Electrical Service: Unsure of new electrical requirements	<b><i>\$60,000.00</i></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 budget. When we originally budgeted we did not realize that we would have additional decommissioning expense dumps charges electrical management charges

30 Ton system	\$166,000.00	\$108,000.00	Existing 'custom' air conditioner will need to be removed to make room for the new equipment	\$107,432.50	Please check the transmission 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 circuit approval
<b>Sub-total</b>	\$2,226,000.00	\$1,749,255.36	N/A	\$1,500,666.55	N/A
<b>Total for all systems</b>	\$3,490,789.60	\$2,655,273.96	N/A	\$2,081,634.48	N/A

### Components

Actual Information	
Description	File Name
UHF inside RF system including switching	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<p><b>Component Description:</b> 25% down payment 15.5 kW /14.5 kW of MD Transmitter System</p> <p><b>Amount:</b> \$104,068.38</p> <p><b>Component Description:</b> 75% of the 15.5kW /14.5kW OFMD Transmitter System Interim</p> <p><b>Amount:</b> \$312,205.13</p>



20 Ton system	<p><b>Component Description:</b> Interim Transmitter Replacement AC Unit Libert#1 - includes Labor , Materials and Subcontractors</p> <p><b>Amount:</b> \$107,432.50</p> <p><b>Component Description:</b> N/A</p> <p><b>Amount:</b> N/A</p>
Transformer 3 phase/480v - 300 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
MASK Filter	Information not provided.

UHF - Liquid Cooled Solid  
State Transmitter 21 - 31  
kW

**Component Description:** THU9-T9 2019  
Harmonic filter  
band IV  
**Amount:** \$1,130.00

**Component Description:** 75% of the  
payment for the 31k  
/W ATSC/28kw  
OFDM Transmitter  
System  
**Amount:** \$589,443.98

**Component Description:** Detailed drawing -  
comprehensive  
coverage field study  
**Amount:** \$15,820.74

**Component Description:** Detailed drawing  
Package of the  
WMHT Transmitter  
Site  
**Amount:** \$15,820.74

**Component Description:** 25% down of the  
main transmitter-  
PO and Quote also  
attached  
**Amount:** \$196,481.32

**Component Description:** Proof of  
Performance for  
THU9evo-10  
WMHT Channel 25  
**Amount:** \$7,500.00

<p>Other Electrical Service:          Unsure of new electrical requirements</p>	<p><b>Component Description:</b> 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> \$59,152.00</p>
<p>30 Ton system</p>	<p><b>Component Description:</b> 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> \$107,432.50</p> <p><b>Component Description:</b> Primary Transmitter Replacement AC Unit</p> <p><b>Amount:</b> \$107,432.50</p>

**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>\$241,140.00</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
<b>Auxiliary Antenna TU Deltastar</b>	<b>\$339,109.60</b>	<b>\$151,869.60</b>		<b>\$139,441.04</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	\$17,000.00	required for new side mount aux antenna	\$16,393.02	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,400.00	required as per RF sweep	\$13,345.60	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,599.99	N/A

Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$30,000.00	Using this category for all the additional expenses as a result of the changes in the combiner /mezzanine vision	\$29,032.83	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	N/A	N/A	N/A
UHF "Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized	<i>\$2,000.00</i>	\$2,000.00	This is a duplicate line- please ignore	N/A	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>	\$580,249.60	\$219,898.60	N/A	\$200,082.43	N/A
<b>Total for all systems</b>	\$3,490,789.60	\$2,655,273.96	N/A	\$2,081,634.48	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>	<p><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</p> <p><b>Amount:</b> \$3,060.00</p>
	<p><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</p> <p><b>Amount:</b> \$3,060.00</p>
<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>	<p><b>Component Description:</b> Shared combiner for the shared CRB tower-45% 2nd invoice; 1/3 of the cost- stations- WMHT; WCWN, WTEN</p> <p><b>Amount:</b> \$23,420.70</p>
	<p><b>Component Description:</b> Shared Combiner for the joint CRB tower- invoice is 45% of the cost; our share is 1/3.</p> <p><b>Amount:</b> \$23,420.69</p>



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

**Amount:** \$2,880.00

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

**Amount:** \$2,880.00

<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>																
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="716 371 1023 405"><b>Component Description:</b></td> <td data-bbox="1155 371 1358 640">The items have been shipped. This invoice is to true up what has been quoted in this specific line item</td> </tr> <tr> <td data-bbox="716 651 826 685"><b>Amount:</b></td> <td data-bbox="1155 651 1278 685">\$3,766.32</td> </tr> <tr> <td data-bbox="716 786 1023 819"><b>Component Description:</b></td> <td data-bbox="1155 786 1358 976">Freight expense- the quote did not include freight- FOB- Raymond Me on the quote</td> </tr> <tr> <td data-bbox="716 987 826 1021"><b>Amount:</b></td> <td data-bbox="1155 987 1254 1021">\$638.70</td> </tr> <tr> <td data-bbox="716 1122 1023 1155"><b>Component Description:</b></td> <td data-bbox="1155 1122 1318 1234">45% down on Product #400001435</td> </tr> <tr> <td data-bbox="716 1245 826 1279"><b>Amount:</b></td> <td data-bbox="1155 1245 1278 1279">\$5,994.00</td> </tr> <tr> <td data-bbox="716 1379 1023 1413"><b>Component Description:</b></td> <td data-bbox="1155 1379 1358 1491">Product 400001435 45% down</td> </tr> <tr> <td data-bbox="716 1503 826 1536"><b>Amount:</b></td> <td data-bbox="1155 1503 1278 1536">\$5,994.00</td> </tr> </table>	<b>Component Description:</b>	The items have been shipped. This invoice is to true up what has been quoted in this specific line item	<b>Amount:</b>	\$3,766.32	<b>Component Description:</b>	Freight expense- the quote did not include freight- FOB- Raymond Me on the quote	<b>Amount:</b>	\$638.70	<b>Component Description:</b>	45% down on Product #400001435	<b>Amount:</b>	\$5,994.00	<b>Component Description:</b>	Product 400001435 45% down	<b>Amount:</b>	\$5,994.00
<b>Component Description:</b>	The items have been shipped. This invoice is to true up what has been quoted in this specific line item																
<b>Amount:</b>	\$3,766.32																
<b>Component Description:</b>	Freight expense- the quote did not include freight- FOB- Raymond Me on the quote																
<b>Amount:</b>	\$638.70																
<b>Component Description:</b>	45% down on Product #400001435																
<b>Amount:</b>	\$5,994.00																
<b>Component Description:</b>	Product 400001435 45% down																
<b>Amount:</b>	\$5,994.00																

Elbow complex, broadband,  
at antenna input, per 6 1/8.  
feedline (if needed)

**Component Description:**

Product #  
40001436 - 45%  
down

**Amount:**

\$3,160.80

**Component Description:**

Elbow joint  
product  
400007476 not  
previously invoiced

**Amount:**

\$7,024.00

**Component Description:**

Product  
#40001436 45%  
down

**Amount:**

\$3,160.80

Sweep test of existing  
antenna

**Component Description:**

WMHT Aux  
System Sweep  
Test; 3 stations on  
invoice- WMHT  
listed - which is 1  
/3 of the total upon  
proposal  
acceptance

**Amount:**

\$866.66

**Component Description:**

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.

**Amount:**

\$1,733.33

<p>Combiner output splitting /switching for dual feed lines, if applicable</p>	<p><b>Component Description:</b> Another expense due to facility modifications necessary to meet the 8/2/19 transition deadline</p> <p><b>Amount:</b> \$4,455.32</p> <p><b>Component Description:</b> Additional expense to solve the construction delays to make the 8/2 deadline</p> <p><b>Amount:</b> \$24,577.51</p>
<p>New combiner, cost per channel (without antenna)</p>	<p>Information not provided.</p>
<p>UHF “ Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized</p>	<p>Information not provided.</p>
<p>UHF – Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized</p>	<p><b>Component Description:</b> Part #400001434 45% down</p> <p><b>Amount:</b> \$39,034.80</p> <p><b>Component Description:</b> Product 400001434 45% down</p> <p><b>Amount:</b> \$39,034.80</p>

**Cost Information**

**Transmission Line**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Transmission Line</b>	<b>\$0.00</b>	<b>\$201,720.00</b>		<b>\$200,566.98</b>	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$0.00	\$201,720.00	existing transmission line does not support the new channel assignments, this represents 1 /3 of the cost of 189,500- have increased the sum to include the actual transmission line install- our share is 138,550	\$200,566.98	N/A
<b>Auxiliary Transmission Line</b>	<b>\$0.00</b>	<b>\$42,105.00</b>		<b>\$37,894.50</b>	
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
<b>Sub-total</b>	<b>\$0.00</b>	<b>\$243,825.00</b>	N/A	<b>\$238,461.48</b>	N/A
<b>Total for all systems</b>	<b>\$3,490,789.60</b>	<b>\$2,655,273.96</b>	N/A	<b>\$2,081,634.48</b>	N/A

**Components**

**Actual Information****Description****File Name**

Rigid Transmission Line -  
copper, 8 3/16" broadband

**Component Description:** 2nd of 3 invoices for the WMHT Transmission Line Install on the joint CRB Tower (Capital Region Broadcasters)  
**Amount:** \$9,275.00

**Component Description:** Provide Labor, Equipment and Fabrication services for line and antenna change outs related to Spectrum Repacking. This invoice is one-third of the total.  
**Amount:** \$100,000.00

**Component Description:** First of 3 invoices for Transmission Line Install on the joint CRB tower (Capital Region Broadcasters)  
**Amount:** \$20,000.00

**Component Description:** Final Invoice for the Transmission Line Install Albany, NY - WMHT- on the CRB tower  
**Amount:** \$9,275.00

**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- spread over 4 components of the 399

**Amount:**

\$31,008.49

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

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

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

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

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



**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>\$83,070.00</b>		<b>\$6,324.67</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	\$6,400.00	We needed another tower climb to understand what was on our tower; hence the tower climb which increased the cost.; after the repack, the Structural consultants came to review the loads- this invoice is just for WMHT	\$6,324.67	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>\$83,070.00</b>	N/A	<b>\$6,324.67</b>	N/A

<b>Total for all systems</b>	\$3,490,789.60	\$2,655,273.96	N/A	\$2,081,634.48	N/A
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## Components

Actual Information	
Description	File Name
Minor tower reinforcement /modifications	Information not provided.
Short Tower (less than 500')	Information not provided.
Structural engineering tower load study for well documented tower	<p><b>Component Description:</b> Consultant Services during antenna and line installation - this invoice is just for WMHT. Work 8/28 and 8/29- reviewed tower contractors proposed method of installing transmission line to ensure structural integrity of the tower was not compromised</p> <p><b>Amount:</b> \$600.00</p> <p><b>Component Description:</b> Analysis of the 435' Guyed Tower for WTEN, WMHT and WCWN split evenly among the 3 stations</p> <p><b>Amount:</b> \$2,500.00</p>

**Component Description:** Tower climb of shared transmission tower- invoice divided by the 3 stations  
**Amount:** \$1,558.00

**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  
**Amount:** \$1,558.00

**Component Description:** Tower mapping of our shared transmission tower /facility  
**Amount:** \$1,666.67

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**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>\$315,040.00</b>	<b>\$242,650.00</b>		<b>\$83,821.56</b>	
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.	\$1,526.69	N/A

In house project management and time	<i>\$90,000.00</i>	\$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.	\$53,410.17	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-ε
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	\$2,235.00	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	\$5,800.00	Due to the changes and delays, our legal expenses are greater than originally forecast	\$5,592.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$4,000.00	WMHT had to submit paperwork to support its broadcasting on the aux antenna as it was unable to yet broadcast on its main antenna to meet the 8/2 deadline	\$3,750.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$750.00	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	\$1,500.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,250.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$79,000.00	\$7,500.00	N/A	\$1,927.20	N/A
<b>Sub-total</b>	\$315,040.00	\$242,650.00	N/A	\$83,821.56	N/A
<b>Total for all systems</b>	\$3,490,789.60	\$2,655,273.96	N/A	\$2,081,634.48	N/A

## Components

Actual Information	
Description	File Name



Travel to Transmitter School	<p><b>Component Description:</b> Mileage reimbursement and Ez pass toll exp for Rhoad and Schwarz transmitter school that Cuong Le, ET IV, attended in Maryland as we have a new transmitter as part of the repack</p> <p><b>Amount:</b> \$441.72</p> <p><b>Component Description:</b> Hotel and Food for Cuong Le, ET IV to be trained in our new Rhoad and Schwarz transmitter in Maryland. Tolls and Ez pass on separate invoice</p> <p><b>Amount:</b> \$301.22</p> <p><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</p> <p><b>Amount:</b> \$783.75</p>
In house project management and time	<p><b>Component Description:</b> This is just for the internal engineering labor for April 30th.</p> <p><b>Amount:</b> \$246.43</p>

**Component Description:** Matt Saplin has been fielding phone calls, working on redesigning the mezzanine.

**Amount:** \$684.55

**Component Description:** Matt Saplin labor for December 2018. He works 1,950 per year. CRB is Capital Region Broadcasters

**Amount:** \$173.41

**Component Description:** Internal Labor for August 2018. CRB is Capital Region Broadcasters-shared tower facility; Raises are included in this invoice

**Amount:** \$287.35

**Component Description:** R&S is Rhoades and Schwarz (transmitter) training in Maryland, CRB is Capital Region Broadcasters

**Amount:** \$533.46

**Component Description:** 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.

**Amount:** \$4,209.58

**Component Description:** 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.

**Amount:** \$3,022.58

**Component Description:** 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.

**Amount:** \$8,594.96

**Component Description:** all 3 employees on one invoice as requested

**Amount:** \$29,602.44

**Component Description:** 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.

**Amount:** \$1,389.50

**Component Description:** 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.

**Amount:** \$810.45

**Component Description:** Matt Saplin is exempt- researched antenna, repack meetings, answered calls and emails- varied admin tasks

**Amount:** \$1,004.01

**Component Description:** all employees on one invoice per request

**Amount:** \$526.83

**Component Description:** 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

**Amount:** \$95.06

**Component Description:** Engineering work done by Matt Saplin and Cuong Lee for the repack. Cuong Lee went to the Rhodes and Schwarz transmitter school; Matt Saplin worked on the quarterly report

**Amount:** \$1,006.87

**Component Description:** 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

**Amount:** \$2,824.85

**Component Description:** 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.

**Amount:** \$2,607.45

**Component Description:** Matt Saplin and Robert Cummings both work 1950 hours per year

**Amount:** \$95.66

**Component Description:** 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.

**Amount:** \$1,114.41

**Component Description:** Cu Long ETV IV total of 100 hours at \$23.54 per hour

**Amount:** \$2,354.00

**Component Description:** 3/18 Internal Labor. Continued Work at the CRB/ Capital Region Broadcasters (joint /shared tower) site-with equipment installs

**Amount:** \$10,676.54

**Component Description:** 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.

**Amount:** \$1,959.98

**Component Description:** 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.

**Amount:** \$890.33

**Component Description:** 11/17 Internal Labor. R&S or R/S is Rohde & Schwarz; CRB is the joint tower; Dielectric & PCI vendors

**Amount:** \$3,343.26

**Component Description:** 5/18 Internal Labor. Rohde & Schwarz installs, Dielectric delivery all at the CRB- Capital Region Broadcasters joint /shared tower.

**Amount:** \$1,968.17

**Component Description:** 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

**Amount:** \$449.46

**Component Description:** 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

**Amount:** \$3,973.71



	<p><b>Component Description:</b> October 17 Internal Labor. Meetings with Rohde &amp; Schwarz- listed as R/S meetigs</p> <p><b>Amount:</b> \$921.31</p>
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  
**Amount:** \$880.00

**Component Description:** Draft collective  
purchasing  
agreement for the  
shared equipment  
of WMHT, WTEN  
and WCWN  
**Amount:** \$4,800.00

**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).  
**Amount:** \$280.00

**Component Description:** Reviewing the  
engineers  
regarding the  
collective  
purchasing  
agreement  
**Amount:** \$80.00

**Component Description:** Single invoice  
review after draft of  
collective  
purchasing  
agreement.  
**Amount:** \$80.00

Attorney Fees -Prepare  
and File FCC Form 2100  
(main), License to Cover  
Application

**Component Description:**

Email  
interchanges,  
moving to main  
antenna, Name of  
firm changed, not  
EIN #

**Amount:**

\$162.00

**Component Description:**

Retrieving copy of  
granted license for  
WMHT and check  
it to ensure that is  
is main and not  
auxiliary. Foster  
Garvey is a merger  
of Foster Pepper  
and Garvey  
Schubert Barer.  
The name of the  
firm changed - EIN

number the same

**Amount:**

\$270.00

**Component Description:**

Emails and  
dialogue between  
the Attorneys and  
the Station  
regarding the STA  
request, public file  
postings and  
consumer  
education.

**Amount:**

\$399.00

	<p><b>Component Description:</b> 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> <p><b>Amount:</b> \$1,404.00</p>
<p>Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application</p>	<p><b>Component Description:</b> This invoice includes other expenses outside of the Television Repacking. The television repacking is only 975</p> <p><b>Amount:</b> \$975.00</p> <p><b>Component Description:</b> Television Repacking Expense broken out- other expenses are on this invoice</p> <p><b>Amount:</b> \$1,944.00</p>

**Component Description:** 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.

**Amount:** \$39.00

**Component Description:** Television repacking expenses are segregated and other expenses are included

**Amount:** \$117.00

**Component Description:** Television Repacking Expense is segregated from other invoice expenses.

**Amount:** \$195.00

**Component Description:** This invoice has includes other expenses. The television repacking expense has been segregated.

**Amount:** \$351.00

	<p><b>Component Description:</b> All expenses on this invoice is for the FCC Repack</p> <p><b>Amount:</b> \$139.50</p>
<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<p><b>Component Description:</b> This invoice is as a result of WMHT STA request, public file postings, extending CP for WMHT construction and emails between the station, consulting engineers, FCC and attorneys</p> <p><b>Amount:</b> \$3,078.00</p> <p><b>Component Description:</b> Email interchanges, status of construction of main antenna, receive and review letter from FCC granting extension of construction permit etc</p> <p><b>Amount:</b> \$702.00</p> <p><b>Component Description:</b> Invoice email exchange with Consulting Engineer, Attorney and staff regarding WMHT STA request</p> <p><b>Amount:</b> \$867.00</p>

	<p><b>Component Description:</b> Email exchange regarding need for an STA for reduced power</p> <p><b>Amount:</b> \$108.00</p> <p><b>Component Description:</b> Regarding transition reporting along with quarterly reporting</p> <p><b>Amount:</b> \$837.00</p>
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p>	<p><b>Component Description:</b> To prepare a Channel 25/STA /interim antenna request due to post transition construction delays</p> <p><b>Amount:</b> \$1,500.00</p> <p><b>Component Description:</b> Prepare the technical portion of the FCC Form 2100, Channel 25 Auxiliary Antenna application</p> <p><b>Amount:</b> \$500.00</p> <p><b>Component Description:</b> Prepare the engineering section of FCC Form 2100</p> <p><b>Amount:</b> \$125.00</p> <p><b>Component Description:</b> To prepare the WMHT Channel 25 Interim /STA Application</p> <p><b>Amount:</b> \$1,625.00</p>

<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development</p> <p><b>Amount:</b> \$250.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development</p> <p><b>Amount:</b> \$250.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p><b>Component Description:</b> Prepare the technical portion of the app for license to cover CP, LMS</p> <p><b>Amount:</b> \$250.00</p>
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application</p>	<p><b>Component Description:</b> Prepare the engineering section of FCC Form 2100</p> <p><b>Amount:</b> \$2,000.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p><b>Component Description:</b> Engineering work on the STA/Interim Application</p> <p><b>Amount:</b> \$1,500.00</p>



<p>Perform engineering study for new channel assignment and antenna development</p>	<p><b>Component Description:</b> Tech Review of Transmission Plant Professional Services, and Form 2100 CP Mod ERP Reduction- Professional Services</p> <p><b>Amount:</b> \$1,250.00</p>
<p>Address transition timing and coordination issues w/ other stations and wireless</p>	<p>Information not provided.</p>
<p>Prepare and or review reimbursement form</p>	<p>Information not provided.</p>
<p>Project management of the transition</p>	<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> <p><b>Component Description:</b> Needed additional engineering support for WMHT due to the complex nature of our joint tower. Frederick Lass was one of the original engineers who designed the structure.</p> <p><b>Amount:</b> \$1,927.20</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>\$93,900.00</b>	<b>\$95,775.00</b>		<b>\$52,277.79</b>	
Mezzanine Construction	<i>\$25,000.00</i>	\$25,000.00	We needed to redesign our facility to accommodate the new equipment facilitated by the repack. This redesign is being split by WCWN, WTEN and WMHT and has been discussed by the FCC	\$24,097.08	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	\$380.00	N/A
Equipment Storage	<i>\$9,000.00</i>	\$9,000.00	We do not have any place to store the equipment as it received	\$4,797.00	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 Rohd 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	\$3,000.00	Much of the 2100 work and other work are on 1 invoice rather than small separate invoices. I will not be using many of the small legal line items	\$2,226.80	N/A

Equipment Delivery and Handling Charges	<b><i>\$10,000.00</i></b>	\$10,000.00	Unknown cost at this time	\$7,003.70	N/A
Transmitter Exciter Input	<b><i>\$6,300.00</i></b>	\$6,300.00	To purchase equipment to properly feed the new exciters and finalize the input requirements of the new transmitter	\$0.00	N/A
Rigging	<b><i>\$13,335.00</i></b>	\$13,335.00	1/3 of the total cost of \$40000	N/A	N/A
Finance and Accounting Expense	<b><i>\$4,500.00</i></b>	\$4,500.00	To cover the salary expense for the Finance and Accounting team to handle the cost accounting and the 399 preparation for the repack	\$3,625.65	N/A
Facility Heat	<b><i>\$6,625.00</i></b>	\$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

MVPD Notification of Channel Change	<i>\$8,000.00</i>	\$8,000.00	We do not know how the \$2,000 budget was came about. We called several vendors and in order to do what was mandated, we had to spend significantly greater than budgeted. We ultimately selected companies based on who our colleagues were using /recommended.	\$6,947.00	N/A
<b>Sub-total</b>	\$93,900.00	\$95,775.00	N/A	\$52,277.79	N/A
<b>Total for all systems</b>	\$3,490,789.60	\$2,655,273.96	N/A	\$2,081,634.48	N/A

### Components

Actual Information Description	File Name
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<p>Mezzanine Construction</p>	<p><b>Component Description:</b> This is for the construction of the Mezzanine for the combiner. This is a joint invoice with WMHT's share itemized.</p> <p><b>Amount:</b> \$21,820.28</p> <p><b>Component Description:</b> This invoice has been divided by 3 - WCWN, WTEN and WMHT all members of the joint - shared tower- CRB or Capital Region Broadcasters. This work is part of the mezzanine project.</p> <p><b>Amount:</b> \$676.80</p> <p><b>Component Description:</b> Invoice is for 1/3 of the cost for the removal of the combiner at the CRB Building</p> <p><b>Amount:</b> \$1,600.00</p>
<p>Develop and air announcement of upcoming channel change</p>	<p><b>Component Description:</b> To reprogram WMHT phone system to add prompts and phone tree to guide our viewers on how to rescan their TVs.</p> <p><b>Amount:</b> \$380.00</p>

Equipment Storage	<p><b>Component Description:</b> Pallet Jack, Load Capacity 5000 lbs Manufacturer #12U125- to move the equipment</p> <p><b>Amount:</b> \$917.00</p> <p><b>Component Description:</b> Storage Containers for the Repack Equipment</p> <p><b>Amount:</b> \$3,880.00</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b> Please delete this line item; this entire invoice has been moved to a separate budget item</p> <p><b>Amount:</b> \$1,900.00</p> <p><b>Component Description:</b> 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> \$3,038.56</p> <p><b>Component Description:</b> Used barrels to store transmitter oil- purchased on Craig's List - no quote as this was purchased used and on-line</p> <p><b>Amount:</b> \$64.80</p>

	<p><b>Component Description:</b> Needed more barrels for the used oil- purchased used barrels on line via Craig's list- no quote available</p> <p><b>Amount:</b> \$97.20</p> <p><b>Component Description:</b> Please delete this line item- the entire invoice has been moved to a separate line item.</p> <p><b>Amount:</b> \$54,452.00</p> <p><b>Component Description:</b> Safe disposal of the mineral oil from Comark transmitter</p> <p><b>Amount:</b> \$2,813.48</p>
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

**Component Description:** Work on license applications and canceling STA- 2 firms merged, EIN # stayed the same.  
**Amount:** \$1,470.80

**Component Description:** This is the cost of retrieving a copy of the granted construction permit for the repack effort  
**Amount:** \$108.00

**Component Description:** Continued work on license application for modified CP  
**Amount:** \$756.00

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:** 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> Rental of one four wheel drive forklift- to move all the equipment new and old for the repack</p> <p><b>Amount:</b> \$1,670.00</p>
	<p><b>Component Description:</b> 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</p> <p><b>Amount:</b> \$853.50</p>
	<p><b>Component Description:</b> Rental of 1 four wheel drive forklift to move all the equipment old and new</p> <p><b>Amount:</b> \$1,450.00</p>
Transmitter Exciter Input	<p><b>Component Description:</b> Equipment to properly feed the new exciters. We will supply invoices with shipping as substantiation once the quote has been approved.</p> <p><b>Amount:</b> \$6,075.00</p>
Rigging	Information not provided.
Finance and Accounting Expense	

**Component Description:** This is for the finance/accounting work done on the 399s by Julie Raskin

**Amount:** \$123.06

**Component Description:** Finance /Accounting Support for the 399. Unaware that we were able to charge for our time. This is the 2nd invoice as we had already submitted the engineering internal labor invoices

**Amount:** \$485.24

**Component Description:** Finance Team besides working on the invoices, 399 assisted other NYS public media stations to put together internal labor invoices for the repack

**Amount:** \$1,003.00

**Component Description:** Finance  
/Accounting  
support for the 399  
and administering  
support. 2nd  
invoice for the  
same period as we  
had submitted  
internal  
engineering  
invoices without  
realizing that we  
could charge for  
our labor

**Amount:** \$370.04

**Component Description:** This invoice is for  
Julie Raskin's work  
on the 399. Julie  
Raskin is exempt  
and works 1950  
hours per year.

**Amount:** \$92.29

**Component Description:** Julie Raskin and  
Avanti Shirali  
worked on internall  
labor invoices and  
admin tasks for the  
399

**Amount:** \$180.73

**Component Description:** October 2018 invoice for Accounting /Finance work to assemble the various invoices including internal labor. We were unaware that we could get reimbursed for our time

**Amount:** \$541.58

**Component Description:** Accounting /Finance Work for the 399s. 2nd invoice for August 2018. Unaware that we were able to submit for reimbursement , there we had already submitted the engineering invoices.

**Amount:** \$783.57

**Component Description:** 399 Assemble packages done by Julie Raskin; review budget

**Amount:** \$46.14

Facility Heat

Information not provided.

MVPD Notification of  
Channel Change

**Component Description:**

This is to notify all the cable and satellite providers of the channel frequency change. We opted to use 2 vendors to provide these notifications as it saved over \$500.

**Amount:**

\$3,197.00

**Component Description:**

Medical Notification Mailing Complete per FCC Repack

**Amount:**

\$3,750.00

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$3,490,789.60	\$2,655,273.96	\$2,081,634.48

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
The facility has ceased operating on its pre-auction channel.	Yes
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
	<b>Submission of Estimated Expenses Statements</b>	<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 data-bbox="742 772 1029 1176">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 data-bbox="742 1198 1013 1444">2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li data-bbox="742 1467 1029 1758">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.

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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Julie Raskin**  
*Vice  
President  
Finance and  
Administration*

02/25/2020

Certification	Section	Question	Response
	<p><b>Submission of Actual Cost Documentation Statements</b></p>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <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.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Julie Raskin**  
*Vice  
President  
Finance and  
Administration*

02/25/2020

## Attachments