

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 73263 Service: DTV Call WMHT Channel: 25 (UHF)

Sign:

0000027901

Number:

ID:

File

FRN: **0006595441** Date **09/10**

Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WMHT EDUCATIONAL TELECOMMUNICATIONS 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Robert Cummings Director of Technology WMHT Educational Telecommunications	Robert Cummings 4 Global View Troy, NY 12180 United States	+1 (518) 880- 3474	bcummings@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

rs	Section	Question	Response
	Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Paragon
	Year	2005
	Туре	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 retuning and replacing exciters exceeds cost of new transmitter.

Primary Transmitter

Other Transmitter Costs

Question	Response
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
	Switchgear (industrial 800 amp) Transformer (480V) Power Rigid Conduit and Wiring Size Length

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

Primary Transmitter

Other Transmitter Cost Not Listed

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

Otile

Other Transmitter Cost Not Listed

Interim

Transmitter 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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	4
	Number of Panels	60
	Design power capacity in use	100.0 %
	Lower Limit	470.00 MH

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
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	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.

Add Antenna Information

Section	Question	Response
Existing Antenna Description	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
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	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

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	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches inches

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Information not provided.

Transmission ^{Seffien}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Add Transmission Line

Auxiliary Transmission

n Lipe 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	Manufacturer	
Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	347 feet per run

New Transmission Line

Auxiliary
Transmissi

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	new channel tx line
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Туре	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 tion not provided.

Existing Transmission Line

Primary Transmission

section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and	Manufacturer	
Type	Туре	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 Transmissi

New Transmission Line

ion 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
	Туре	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
	Justification for New Transmission Line	Existing transmission line does not support all the new channels assigned by the repack

Primary Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

Tower Equipment And Rigging Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	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	Do you have a tower registration number?	No
Structure Registration	ASR Number	
Coordinates (NAD83 (North American Datum	Latitude (NAD83)	42° 37' 31.3" N-
of 1983))	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
73942	WRGB	DTV
73363	WNYT	DTV
73266	WMHT-FM	FM
74422	WTEN	DTV
73264	WCWN	DTV

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	
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

Section	Question	Response
Services Costs Outside Project Management Services	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)
Outside RF consulting Ingineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	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
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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
RF Field Engineering Services	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

Other Professional Services Expenses Not Listed

al Şervices Costs	Description
In house project management and time	Unable to hire a consultant for the repack so we are doing the project management and work in house

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	No
Permit and Filing Costs	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
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name Description	
Rigging	For new main combiner and transmission line
Facility Heat	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 Cos
Interim Transmitter THUevo	\$1,022,000.00	\$738,255.36		\$523,706.01	
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
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	\$0.00	N/A
Primary Transmitter THU9evo	\$1,204,000.00	\$1,051,000.00		\$1,091,583.78	

UHF - Liquid	\$947,000.00	\$802,000.00	I have included the equipment	\$817,566.78	The Roh
Cooled Solid State			package drawings that		for the drawing
Transmitter			Rohde and		create
21 - 31 kW			Schwarz have		overage.
			developed for the transmitter		remove Rohde
			site. Please look		Schwarz
			at the actual		name is
			invoices for		and
			substantiation of the estimated		attach doesn't h
			cost		info red
30 Ton	\$166,000.00	\$158,000.00	Existing 'custom'	\$214,865.00	Please
system	\$ 100,000.00	ψ.00,000.00	air conditioner	Ψ=1.1,000.00	the tran
			will need to be		which h
			removed to		Walte
			make room for		J611B
			the new		action more in
			equipment		(the s
					Walter
					this item
					the cat
					within l
					and The
					Co. AC appı
Other	\$60,000.00	\$60,000.00	Costs of	\$59,152.00	This is a
Electrical			electrical and		item for
Service:			decommissioning		When
Unsure of			work of our old		orig
new electrical			transmitters		budget did not
requirements			(high voltage transformers,		that we
equirements			electrical panels.		have
			Also included is		decomm
			an electrical		expen
			project manager		dum
			to oversee this		charge
			aspect. We were not aware when		electrica
			we were		manag cha
			budgeting this		0.10
			project all the		

MASK Filter	\$31,000.00	\$31,000.00	N/A	N/A	N/A
Sub-total	\$2,226,000.00	\$1,789,255.36	N/A	\$1,615,289.79	N/A
Total for all systems	\$4,195,326.00	\$2,429,015.36	N/A	\$1,791,307.99	N/A

Components

Actual Information Description	File Name	
20 Ton system		
	Component Description:	N/A
	Amount:	N/A
	Component Description:	Interim Transmitter Replacement AC Unit Libert#1 - includes Labor , Materials and
	Amount:	Subcontractors \$107,432.50
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	Component Description:	75% of the 15.5kW /14.5kW OFMD Transmitter System
	Amount:	Interim \$312,205.13
	Component Description:	25% down payment 15.5 kW /14.5 kW of MD
	Amount:	Transmitter System \$104,068.38

UHF inside RF system including switching	Information not provided.	
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:	Detailed drawing Package of the WMHT Transmitter Site
	Amount:	\$15,820.74
	Component Description:	Detailed drawing - comprehensive coverage field study
	Amount:	\$15,820.74
	Component Description:	75% of the payment for the 31k /W ATSC/28kw OFDM Transmitter System
	Amount:	\$589,443.98

	Component Description:	Primary
	Component Decemparem	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
	Amount:	\$107,432.50
	Component Description:	Primary
		Transmitter
		Replacement AC
		Unit
	Amount:	\$107,432.50
Other Electrical Service:		
Unsure of new electrical	Component Description:	We have put a new
requirements		line item in the 399
		to accommodate
		this invoice- as
		when we were
		writing the budget,
		we did not
		anticipate these
		expenses
	Amount:	\$59,152.00

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost
Primary Antenna TUD-05-12 /60H-1-B	\$1,019,140.00	\$61,470.00		\$5,760.00	
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	\$6,000.00	1/3 of the cost of \$18,000	N/A	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	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$2,135.00	1/3 of the cost of \$6400	\$5,760.00	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
Auxiliary Antenna TU Deltastar	\$354,046.00	\$126,750.00		\$97,245.86	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$866.66	N/A
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)						
output splitting /switching for dual feed lines, if applicable New \$84,200.00 \$0.00 N/A N/A N/A N/A Combiner, cost per channel (without antenna) UHF — \$95,006.00 \$95,006.00 Our current aux antenna is cut for channel 34 only (reference RF sweep) and will need to be replaced for our new channel Sub-total \$1,373,186.00 \$188,220.00 N/A \$103,005.86 N/A Total for all	complex, broadband, at antenna input, per 6 1/8. feedline (if	\$13,700.00	\$7,024.00	per RF	\$6,321.60	N/A
combiner, cost per channel (without antenna) \$95,006.00 \$95,006.00 Our current aux should antenna should antenna should antenna is cut for channel 34 only (reference RF sweep) and will need to be replaced for our new channel \$1,373,186.00 \$188,220.00 N/A \$1,791,307.99 N/A Total for all \$4,195,326.00 \$2,429,015.36 N/A \$1,791,307.99 N/A	output splitting /switching for dual feed lines,	\$126,000.00	\$0.00	N/A	N/A	N/A
Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized Sub-total \$1,373,186.00 \$188,220.00 N/A \$103,005.86 N/A Total for all	combiner, cost per channel (without	\$84,200.00	\$0.00	N/A	N/A	N/A
Total for \$4,195,326.00 \$2,429,015.36 N/A \$1,791,307.99 N/A all	Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally	\$95,006.00	\$95,006.00	aux antenna is cut for channel 34 only (reference RF sweep) and will need to be replaced for our new	\$78,069.60	N/A
all	Sub-total	\$1,373,186.00	\$188,220.00	N/A	\$103,005.86	N/A
	all	\$4,195,326.00	\$2,429,015.36	N/A	\$1,791,307.99	N/A

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.	
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	Information not provided.	
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.	
New combiner, cost per channel (without antenna)	Information not provided.	
Sweep test of existing antenna	Component Description: Amount:	Repack Sweep includes 1 Field Engineer on site for 1 day, travel expenses and report 45% down \$2,880.00
	Component Description: Amount:	45% of the Repack Sweep includes 1 Field Engineer on-Site for the Day, Travel, Expenses and Report \$2,880.00
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, horizontally polarized	Information not provided.	
	'	

• • • • • • • • • • • • • • • • • • • •		
Sweep test of existing antenna		
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
Pattern scatter analysis for	Information not provided.	
side mount high/med power		
antennas (if not included in		
antenna base cost)		
Side mount brackets for		
high power antennas (if not	Component Description:	Product
ncluded in antenna base		400001435 45%
cost)		down
	Amount:	\$5,994.00
		. ,
	Common on the control of the control	450/
	Component Description:	45% down on
		Product
		#400001435
	Amount:	\$5,994.00
Elbow complex, broadband,		
at antenna input, per 6 1/8.	Component Description:	Product
eedline (if needed)		#40001436 45%
		down
	Amount:	\$3,160.80
	Component Description:	Product #
	Component Description.	40001436 - 45%
	A	down
	Amount:	\$3,160.80
Combiner output splitting	Information not provided.	
Combiner output splitting switching for dual feed	Information not provided.	

New combiner, cost per channel (without antenna)	Information not provided.	
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 20 horizontally polarized	Component Description: Amount:	Part #400001434 45% down \$39,034.80
	Component Description:	Product 400001434 45% down
	Amount:	\$39,034.80

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		\$0.00	
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	N/A	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	\$37,894.50	N/A
Total for all systems	\$4,195,326.00	\$2,429,015.36	N/A	\$1,791,307.99	N/A

Actual Information Description	File Name
Rigid Transmission Line - copper, 8 3/16" broadband	Information not provided.

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

#300006758 45%

down.

Amount: \$17,547.97

Component Description: Product

#RTLSCR3-20

45% down

Amount: \$1,399.28

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost
Primary Tower TOWER	\$254,800.00	\$80,670.00		\$5,724.67	
Structural engineering tower load study for well documented tower	\$12,600.00	\$4,000.00	1/3 of the cost of 12,000	\$5,724.67	We realized that as we were putting up new equipment, we needed to review the tower to understand the stressesthe total amount is not greater than the budgeted amount
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
Sub-total	\$254,800.00	\$80,670.00	N/A	\$5,724.67	N/A
Total for all systems	\$4,195,326.00	\$2,429,015.36	N/A	\$1,791,307.99	N/A

Description	File Name	
Structural engineering tower load study for well documented tower	Component Description:	Tower climb of shared transmission tower- invoice divided by the 3 stations
	Amount:	\$1,558.00
	Component Description:	Analysis of the 435' Guyed Tower for WTEN, WMHT and WCWN split evenly among the
	Amount:	3 stations \$2,500.00
	Component Description:	Tower mapping of our shared transmission towe
	Amount:	\$1,666.67
Minor tower reinforcement /modifications	Information not provided.	
Short Tower (less than 500')	Information not provided.	

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 Cos
Outside Professional Services	\$268,440.00	\$192,750.00		\$14,391.91	
In house project management and time	\$45,000.00	\$45,000.00	Unable to get a local consultant, we are taking care of project management in house for main shared equipment as well as our interim/aux and main transmitters	\$621.91	Cu Long ETV IV needs to be deleted IL-12-31- 2017 Invoice for \$29,602.44 needs to be deleted

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 needed a group F and purchase agreeme as 2 of or vendors refused to take individual invoices but wanted 1 invoices but wanted to individual amount broken or The POston then had be approved by Nexstand Sincles we are on a joint tower
Project management of the transition	\$79,000.00	\$7,500.00	N/A	\$0.00	Please delete th invoice. This invoice ha its own budget now so th portion ca be delete thanks
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 - 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	\$3,621.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
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
Sub-total	\$268,440.00	\$192,750.00	N/A	\$14,391.91	N/A
Total for all systems	\$4,195,326.00	\$2,429,015.36	N/A	\$1,791,307.99	N/A

Actual Information	
Description	File Name

In house project
management and time

Component Description: all 3 employees on

one invoice as requested

Amount: \$29,602.44

Component Description: Cu Long ETV IV

total of 100 hours at \$23.54 per hour

Amount: \$2,354.00

Component Description: Internal Labor for

February 28, 2017

Amount: \$95.08

Component Description: all employees on

one invoice per

request

Amount: \$526.83

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

Component Description: Reviewing the

engineers regarding the collective purchasing agreement

Amount: \$80.00

Component Description: fees are for

agreement for all our shared equipment to be repacked We-WMHT, WTEN and WCWN are owners of the

drafting a PO and

owners of the Capital Region Broadcasters LLC

(aka CRB). \$280.00

Amount:

Component Description:

Draft collective purchasing

agreement for the shared equipment of WMHT, WTEN and WCWN

Amount: \$4,800.00

Component Description: Review Sinclair

changes and finalized contract and group PO

Amount: \$880.00

Component Description: Single invoice

review after draft of collective purchasing agreement.

Amount: \$80.00

Project management of the transition	Component Description: Amount:	Please delete this invoice; the full amount of this invoice including this has its own line item- thanks. \$2,800.00
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 -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	There are 2 subtotals 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 \$1,404.00
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Component Description: Amount:	This invoice includes other expenses outside of the Television Repacking. The television repacking is only 975 \$975.00

Component Description: Television

repacking expenses are segregated and other expenses are included

Amount: \$117.00

Component Description: Television

repacking expense is segregated from

the other

expenses in this

invoice

Amount: \$39.00

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

Component Description: Television

Repacking Expense broken

out- other

expenses are on

this invoice

Amount: \$1,944.00

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Component Description:	Prepare the engineering section of FCC Form 2100
	Amount:	\$125.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	Engineering study
		work for new channel assignment and antenna
	Amount:	development \$250.00
	Component Description:	Engineering study
		work for new channel assignment and
	Amount:	antenna development \$250.00
RF Consulting Engineer		
Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit	Component Description:	Prepare the engineering section of FCC Form 2100
Application	Amount:	\$2,000.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	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.

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$52,100.00	\$52,045.00		\$15,001.26	
Facility Heat	\$6,625.00	\$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	\$13,335.00	\$13,335.00	1/3 of the total cost of \$40000	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$2,000.00	\$2,000.00	need to let our viewers know of the channel change	N/A	N/A

Equipment Storage	\$9,000.00	\$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	\$10,000.00	\$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)	\$7,500.00	\$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
Sub-total	\$52,100.00	\$52,045.00	N/A	\$15,001.26	N/A
Total for all systems	\$4,195,326.00	\$2,429,015.36	N/A	\$1,791,307.99	N/A

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		
	Component Description:	Storage Containers for the Repack Equipment
	Amount:	\$3,880.00
	Component Description:	Pallet Jack, Load Capacity 5000 lbs Manufacturer #12U125- to move the equipment
	Amount:	\$917.00
Equipment Delivery and Handling Charges		

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

Amount:

Component Description: We needed snow

removal at the site in order to receive the equipment- we had 3 noreasters

in a row \$1,240.00

Component Description: Rental of one four

wheel drive forkliftto 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

Component Description: Rental of 1 four

wheel drive forklift to move all the equipment old and

new

Amount: \$1,450.00

Disposal Costs (for equipment and other waste, net of any salvage value)

Component Description: No.

Needed more barrels for the used oil-

purchased used barrels on line via Craig's list- no quote available

Amount: \$97.20

Component Description: Used barrels to

store transmitter oil- purchased on Craig's List - no quote as this was purchased used and on-line

Amount: \$64.80

Component Description: Please delete this

line item- the entire invoice has been moved to a separate line item.

Amount: \$54,452.00

Component Description: Please delete this

line item; this entire invoice has been moved to a separate budget

item

Amount: \$1,900.00

	Component Description: Amount:	Safe disposal of the mineral oil from Comark transmitter \$2,813.48
	Component Description: Amount:	This for the expense of the safe disposal of the mineral oil from our Comark transmitter beam supply transformersplease delete other Safety - Kleen component \$3,038.56
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.	

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,195,326.00	\$2,429,015.36	\$1,791,307.99

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

Section Question Response

Submission of Estimated Expenses Statements

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

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

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

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

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Julie Raskin VP Finance and Administration

09/10/2018

Section Question Response

Submission of Actual Cost Documentation Statements

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

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

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

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

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

Julie Raskin VP Finance and Administration

09/10/2018

Attachments