Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **19183** | Service: **DTV** | Call Sign: **WZVN-TV** | Channel: **28 (UHF)**

File Number: **0000028624**

FRN: **0001733518** | Date Submitted: **02/28/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
MONTCLAIR COMMUNICATIONS, INC. Doing Business As: MONTCLAIR COMMUNICATIONS, INC.	Lara W. Kunkler 101 DEVON RD. CHARLOTTESVILLE, VA 22903 United States	+1 (434) 220-2918	KUNK@WATER.NET	Corporation

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
Daniel Eugene Billings *Director of Engineering* *Montclair Communications, Inc.*	Dan Billings 3719 Central Avenue Fort Myers, FL 33901 United States	+1 (239) 939-6299	danb@water.net

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 current channel 41 TX with a new channel 28 TX. Encode ABC with WBBH and broadcast on the WBBH signal. Install temporary antenna. Remove old top mount antenna. Transition to new to new E pol to mount antenna when install completed..

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	Waterman Broadcasting, LLC
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCX-2H
	Year	2002
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 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?	No
	Manufacturer	
	Model	PRLX U24 D28
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	40 kW
	Justification for New Transmitter	Manufacturer will not retune current transmitter. This purchase represents "Like for Like" replacement to ensure operations maintain current flexibility. See attachment "WZVN 399 Cost Estimate Questions and Answers" for further explanation.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Onsite electrical contractor estimate for all electrical work needed to install the new transmitter.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 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
Current transmitter removal	Disassemble current transmitter, filters, combiner, heat exchangers, piping, etc. Remove from site.
Transmitter offloading	The estimated cost to offload and place the new transmitter in our building.
Surge Suppressor	Replacement of current surge suppression with system suitable for the solid state transmitter.
Remote control rebuild	Rebuild remote control system to work with new transmitter.
State Sales Tax	State sales tax levied on equipment at 6 percent.
Temporary storage	Temporary storage of new transmitter, filters, combiner, heat exchangers and associated hardware.
Transmitter Shipping	The estimated cost of shipment for the new transmitter to our facility.

Antennas

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

Primary Antenna

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	Waterman Broadcasting, LLC
	Site	N/A
	Is this antenna currently shared with any other stations?	Yes
	Is this antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	56
	Design power capacity in use	80.0 %
	Lower Limit	476.00 MHz
	Upper Limit	638.00 MHz
	Other Antenna Type	N/A

ERP: (Effective Radiated Power)	1000.0 kW
Manufacturer	
Model	ABBP14H3-HTP4-15/41
Year	2002

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

Facility ID	Call Sign
71085	WBBH-tv

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Leased
	Owner	Waterman Broadcasting, LLC
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	42
	Lower Limit	476.00 MHz
	Upper Limit	560.00 MHz
	Design power capacity in use	70.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	TUM30-P4-14 /42H-1-R
Year	2018
Justification for New Antenna	Current antenna pattern and performance questionable at channel 28. Replace to maintain current performance and upgrade to E Pol for ATSC 3.0. See attachment "WZVN 399 Cost Estimate Questions and Answers" for further explanation.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes

	Broadband or Single Channel?	Broadband
	Feed Line Size	7 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number
28
15

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Temporary main antenna storage	Portable temporary storage for the new main antenna and associated hardware prior to installation.
State Sales Tax	State sales tax levied on equipment at 6 percent.
Current Antenna Analysis	Parameter analysis pattern tabulation of current Alan Dick antenna.
New Main Antenna Shipping	Estimated cost to ship new main antenna from Europe,

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Leased
	Owner	Waterman Broadcasting, LLC
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	541.0 kW
	Manufacturer	

Model	TFU-24WB C160 CH 14-51
Year	2018
Justification for New Antenna	To be used during time the main top mount antenna and line are being changed. This is a Dielectric slotted side mounted antenna. See attachments "exhibit a" and "WZVN 399 Cost Estimate Questions and Answers" for quote and requirement explanation.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes

	Broadband or Single Channel?	B
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Interim Operaton plumbing	This is the cost for in building plumbing hardware and installation to the Interim antenna system.
Temporary interim antenna storage	Portable storage facility for temporary storage of the interim antenna prior to installation.
Interim antenna shipment	Estimated cost to ship interim antenna.
State Sales Tax	State sales tax levied on equipment at 6 percent.

Transmission Line

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

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1575 feet per run

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

Facility ID	Call Sign
71085	WBBH-TV

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1575 feet per run
	Justification for New Transmission Line	Current transmission line cut and optimized for channels 15 and 41. Will change to line optimized for new channel 28 and 15.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Shipment of main TX line	Shipment of the main transmission line to our facility.

State sales tax	State sales tax levied on equipment at 6 percent.
Temporary main TX line storage	Portable temporary storage of the main transmission line before installation.

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1575 feet per run
	Justification for New Transmission Line	Needed to stay in operation while permanent line, antenna and ABC transmitter are installed.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Shipment of interim TX line	Shipment of the interim transmission line to our facility.
State sales tax	State sales tax levied on equipment at 6 percent.
Temporary storage for interim TX line	Portable temporary storage for the interim transmission line prior to installation.

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	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1231697
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	26° 49' 22.4" N-
	Longitude (NAD83)	081° 45' 53.6" W-
	Overall Structure Height	1516.06 feet
	Support Structure Height	1457.66 feet
	Ground Elevation Above Mean Sea Level (AMSL)	33.14 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Waterman Broadcasting Corp. of Florida
Date Constructed	09/13/2002

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
71085	WBBH-TV	DTV

Other Types of Users

Users
LoJack
EMS

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	915
	Explanation	Manage the delivery of new transmitter and RF systems, storage, installation process and disposal of old equipment. Manage tower modifications and line and antenna installation. Processing Form 399.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare request for Special Temporary Authority	Yes
	Quantity	1

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
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 Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Comark	Site Design Service - On site analysis, layout and drawings for new transmitter and RF system. See attachments "exhibit f" and "WZVN 399 Cost Estimate Questions and Answers" costs already incurred and for further explanation.
DTV Pros	The company will assist with quotations and add efficiency throughout project. See attachments "exhibit a" and "WZVN 399 Cost Estimate Questions and Answers" for further explanation.
Washington Engineering	Antenna pattern analysis and CP for channel 28 and repack consultation. Cohen, Dippell and Everist. P.C. See attachment "WZVN 399 Cost Estimate Questions and Answers" for further explanation.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	No
	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
Comark Training	Training for two company engineers so that transmitter may be maintained to FCC specifications. Same as with current transmitter.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter PRLX U24 D28	**$1,664,619.00**	**$1,349,936.00**		**$638,176.20**	
Other Electrical Service: Onsite electrical contractor estimate for all electrical work needed to install the new transmitter.	***$18,299.00***	$18,299.00	N/A	$248.34	N/A
Transmitter Shipping	***$16,945.00***	$16,945.00	Comark quoted cost.	$8,472.50	N/A
Temporary storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A
State Sales Tax	***$69,100.00***	$69,100.00	State Sales tax on transmitter related equipment.	$36,059.36	N/A
Remote control rebuild	***$8,000.00***	$8,000.00	Rebuild remote control system to work with new transmitter.	N/A	N/A

Surge Suppressor	***$8,800.00***	$8,800.00	Replacement of current surge-suppressor with unit specified for new transmitter. Comark quoted cost.	N/A	N/A
Transmitter offloading	***$6,000.00***	$6,000.00	Comark quoted cost.	$3,000.00	N/A
Current transmitter removal	***$20,575.00***	$20,575.00	Removal of current transmitter, RF system and cooling system Includes disposal. Per Comark estimate.	$10,287.50	N/A
10 Ton system	$38,900.00	$37,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	$1,473,000.00	$1,160,217.00	Comark quoted cost.	$580,108.50	N/A
Sub-total	$1,664,619.00	$1,349,936.00	N/A	$638,176.20	N/A
Total for all systems	$4,789,040.10	$4,340,090.90	N/A	$1,217,367.07	N/A

Components

Actual Information Description	File Name

Other Electrical Service: Onsite electrical contractor estimate for all electrical work needed to install the new transmitter.	**Component Description:** **Amount:**	Trip Charge, 4SQ Box, 1/2' Mud Ring $248.34
Transmitter Shipping	**Component Description:** **Amount:**	Transmitter Transportation $8,472.50
Temporary storage	Information not provided.	
State Sales Tax	**Component Description:** **Amount:**	Taxes $36,059.36
Remote control rebuild	Information not provided.	
Surge Suppressor	Information not provided.	
Transmitter offloading	**Component Description:** **Amount:**	Transmitter Offloading $3,000.00
Current transmitter removal	**Component Description:** **Amount:**	Removal of existing transmitters $10,287.50
10 Ton system	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	**Component Description:**	SYSTEM, WZVN PRLX U24 D28; TV Transmitter Installation; Transmitter Proof of Performance; Removal of Existing DCX-2 IOT Transmitter; Transportation /Offloading
	Amount:	$580,108.50

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-24WB C160 CH 14-51	**$456,300.00**	**$454,120.00**		**$62,241.60**	
State Sales Tax	***$12,720.00***	$12,720.00	State sales tax on interim antenna related equipment.	N/A	N/A
Interim antenna shipment	***$18,000.00***	$18,000.00	N/A	N/A	N/A
Interim Operaton plumbing	***$20,000.00***	$20,000.00	Additional transmission line plumbing and labor for temporary operation.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	N/A	N/A

Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	$13,700.00	$13,000.00	Interim antenna elbow complex.	$4,468.80	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	Sweep testing of interim antenna.	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 541 kW input, directional,, horizontally polarized	***$357,000.00***	$357,000.00	Dielectric side mount 24 bay antenna including installation.	$57,772.80	N/A
Temporary interim antenna storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Primary Antenna TUM30-P4-14/42H-1-R	**$938,945.00**	**$831,915.00**		**$151,615.00**	
New Main Antenna Shipping	***$25,000.00***	$25,000.00	Estimated cost for shipment of Alan Dick antenna from the UK.	N/A	N/A
Current Antenna Analysis	***$3,000.00***	$3,000.00	N/A	N/A	N/A

State Sales Tax	***$30,165.00***	$30,165.00	Estimated state sales tax for primary antenna related equipment.	N/A	N/A
Temporary main antenna storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	$16,850.00	$16,000.00	New main antenna elbow complex.	$5,342.40	N/A
New combiner, cost per channel (without antenna)	$84,200.00	$48,750.00	Comark quoted combiner cost for channel 15 and channel 28.	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	Sweep testing of new antenna.	$2,560.00	N/A
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	$768,000.00	$697,600.00	Alan Dick quoted E Pol panel antenna replacement including installation.	$143,712.60	N/A
Sub-total	$1,395,245.00	$1,286,035.00	N/A	$213,856.60	N/A

Total for all systems	$4,789,040.10	$4,340,090.90	N/A	$1,217,367.07	N/A

Components

Actual Information Description	File Name	
State Sales Tax	Information not provided.	
Interim antenna shipment	Information not provided.	
Interim Operaton plumbing	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	Interim Antenna, Elbow Complex $4,468.80
Sweep test of existing antenna	Information not provided.	
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 541 kW input, directional,, horizontally polarized	**Component Description:** **Amount:**	Interim Antenna $57,772.80
Temporary interim antenna storage	Information not provided.	
New Main Antenna Shipping	Information not provided.	
Current Antenna Analysis	Information not provided.	
State Sales Tax	Information not provided.	
Temporary main antenna storage	Information not provided.	

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	**Component Description:** **Amount:**	Primary Antenna, Elbow Complex $5,342.40
New combiner, cost per channel (without antenna)	Information not provided.	
Sweep test of existing antenna	**Component Description:** **Amount:**	Primary Antenna - Sweep Test $2,560.00
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	**Component Description:** **Amount:**	UHF - HIGH POWER TOP MOUNT (200-1000KW) $143,712.60

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	**$395,780.00**	**$378,455.00**		**$0.00**	
Temporary storage for interim TX line	***$5,000.00***	$5,000.00	N/A	N/A	N/A
State sales tax	***$20,880.00***	$20,880.00	State sales tax for interim line related equipment.	N/A	N/A
Shipment of interim TX line	***$4,500.00***	$4,500.00	Shipment of interim transmission line to our facility.	N/A	N/A
Rigid Transmission Line - copper, 6 1 /8" broadband	$365,400.00	$348,075.00	N/A	N/A	N/A
Primary Transmission Line	**$568,475.00**	**$543,275.00**		**$119,764.47**	
Temporary main TX line storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A
State sales tax	***$30,000.00***	$30,000.00	State sales tax on new main line related equipment.	N/A	N/A

Shipment of main TX line	***$9,000.00***	$9,000.00	Shipment of main transmission line to our facility.	N/A	N/A
Rigid Transmission Line - copper, 7 3 /16" broadband	$524,475.00	$499,275.00	N/A	$119,764.47	N/A
Sub-total	$964,255.00	$921,730.00	N/A	$119,764.47	N/A
Total for all systems	$4,789,040.10	$4,340,090.90	N/A	$1,217,367.07	N/A

Components

Actual Information Description	File Name
Temporary storage for interim TX line	Information not provided.
State sales tax	Information not provided.
Shipment of interim TX line	Information not provided.
Rigid Transmission Line - copper, 6 1/8" broadband	Information not provided.
Temporary main TX line storage	Information not provided.
State sales tax	Information not provided.
Shipment of main TX line	Information not provided.
Rigid Transmission Line - copper, 7 3/16" broadband	**Component Description:** Rigid transmission line - copper **Amount:** $119,764.47

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	**$381,100.00**	**$411,740.00**		**$193,270.00**	
Tall Tower (greater than 500')	$210,500.00	$200,000.00	N/A	$93,400.00	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	$158,000.00	$199,740.00	Proposal TCI-18-015D	$99,870.00	N/A
Sub-total	$381,100.00	$411,740.00	N/A	$193,270.00	N/A
Total for all systems	$4,789,040.10	$4,340,090.90	N/A	$1,217,367.07	N/A

Components

Actual Information Description	File Name
Tall Tower (greater than 500')	**Component Description:** Tower Equipment and Rigging Costs, Tall Tower **Amount:** $93,400.00
Structural engineering tower load study for well documented tower	Information not provided.

Minor tower reinforcement /modifications	**Component Description:**	Tower reinforcements /modifications; 1516 ft guyed tower
	Amount:	$99,870.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$326,716.10**	**$314,139.90**		**$52,299.80**	
Project management of the transition	$144,570.00	$138,750.00	N/A	$27,292.80	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$8,168.80	invoice	$6,443.80	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	$495.00	N/A
NEPA Section 106 environmental review, if needed	$6,310.00	$6,000.00	N/A	N/A	N/A
Washington Engineering	***$12,921.10***	$12,921.10	Additional fees and charges, antenna pattern analysis, CP and consulting for repack.	$5,768.20	N/A
DTV Pros	***$3,500.00***	$3,500.00	N/A	N/A	N/A
Comark	***$15,300.00***	$15,300.00	N/A	$12,300.00	N/A

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
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	$10,520.00	$10,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	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
Sub-total	$326,716.10	$314,139.90	N/A	$52,299.80	N/A
Total for all systems	$4,789,040.10	$4,340,090.90	N/A	$1,217,367.07	N/A

Components

Actual Information Description	File Name
Project management of the transition	**Component Description:** Project Management **Amount:** $450.00 **Component Description:** Project Management **Amount:** $1,602.90 **Component Description:** Professional services **Amount:** $200.00 **Component Description:** Project Management **Amount:** $378.75

Component Description: Project Management
Amount: $1,714.85

Component Description: Project Management
Amount: $2,129.15

Component Description: Project Management
Amount: $2,132.60

Component Description: Project Management
Amount: $2,665.15

Component Description: Project Management
Amount: $3,049.75

Component Description: Project Management
Amount: $4,024.85

Component Description: Project Management
Amount: $4,531.55

Component Description: Professional services
Amount: $600.00

Component Description: Project Management
Amount: $2,708.25

	Component Description:	Professional services
	Amount:	$280.00
	Component Description:	Professional services
	Amount:	$725.00
	Component Description:	Professional services
	Amount:	$100.00
Perform engineering study for new channel assignment and antenna development	**Component Description:**	Consulting engineering services
	Amount:	$6,443.80
	Component Description:	Consulting engineering services through July 2018 concerning potential change of antenna manufacturer from Jampro to Dielectric
	Amount:	$1,725.00

Prepare and or review reimbursement form	**Component Description:** **Amount:**	Professional Services Rendered $495.00
	Component Description: **Amount:**	Prepare and/or Review Reimbursement Form $270.00
	Component Description: **Amount:**	Professional services $495.00
NEPA Section 106 environmental review, if needed	Information not provided.	

Washington Engineering	**Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:**	Consulting engineering services through June 28, 2018 concerning potential change of antenna manufacturer from Jampro to Dielectric and notification to FCC $5,768.20 Consulting engineering services $1,384.70 Consulting engineering services $5,768.20
DTV Pros	Information not provided.	
Comark	**Component Description:** **Amount:**	System design services/site survey $12,300.00
RF Exposure Measurements	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	

ASR modification (prepare FCC Form 854)	Information not provided.
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$57,105.00**	**$56,510.00**		**$0.00**	
Comark Training	***$4,800.00***	$4,800.00	N/A	N/A	N/A
MVPD Notification of Channel Change	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$2,500.00***	$2,500.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$1,070.00	N/A	N/A	N/A

DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	N/A	N/A
Local Zoning	***$750.00***	$750.00	N/A	N/A	N/A
Equipment Storage	***$1,200.00***	$1,200.00	N/A	N/A	N/A
Sub-total	$57,105.00	$56,510.00	N/A	$0.00	N/A
Total for all systems	$4,789,040.10	$4,340,090.90	N/A	$1,217,367.07	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$4,789,040.10	$4,340,090.90	$1,217,367.07

Reimbursement Status

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

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	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 above-named applicant for the Authorization(s) specified above.	**Daniel Eugene Billings** *Director of Engineeering* 02/28/2019

Certification

Section	Question	Response
Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

	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.	**Daniel Eugene Billings** *Director of Engineering* 02/28/2019

Attachments