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:	**66804**	Service:	**DTV**	Call Sign:	**WOAY-TV**	Channel:	**31 (UHF)**
File Number:	**0000028554**						
FRN:	**0006611263**	Date Submitted:	**02/28/2020**				

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
THOMAS BROADCASTING COMPANY Doing Business As: THOMAS BROADCASTING COMPANY	Gerald DiBartolomeo PO Box 3001 OAK HILL, WV 25901 United States	+1 (304) 469-3361	jdibartolomeo@woay.com	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
The Preparer is same as the reimbursement contact.			

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.	No
Briefly describe transition plan	The plan is for WOAY is to replace the existing channel 50 system with a new channel 31 antenna, new line and new transmitter.

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	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 and Type	Manufacturer	
	Model	Sigma CD3 Diamond
	Year	2008
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	19.2 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	ULXTE-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30 kW
	Justification for New Transmitter	GatesAir will no longer offer channel change services, or support in field channel changes on this transmitter.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No

	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Installation and materials for transmitter electrical, including connectors and wiring for new transmitter
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	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?	Yes
	Size	575.0 square feet
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

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	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	600.0 kW

Manufacturer	
Model	TFU32DSB-A(C)
Year	2008

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	320.0 kW
	Manufacturer	

	Model	TFU-31JTH-R 04
	Year	2017
	Justification for New Antenna	The current antenna cannot be re-tuned.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	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?	Single Channel
	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
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

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Mounting Adapter	Bury mounting adapter with wedding cake.
Primary Antenna Installation	Cost of installation split with interim antenna. Please see ERI 20181008-510 Rev B

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	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/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	20.0 kW
	Manufacturer	
	Model	TFU-8WB C160
	Year	2018

	Justification for New Antenna	Interim antenna is required because installation of their new primary antenna will be delayed 2-4 months in order to address necessary tower work.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an 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

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Interim Antenna Installation Costs	Cost of installation split with primary antenna. Please see ERI 20181008-510 Rev B

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?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Flexible Air
	Diameter	5 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	650 feet per run

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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	700 feet per run
	Justification for New Transmission Line	This is a necessary expense to maintain on air operation during the transition. Includes 100' of flexible transmission line for horizontal run to base of building.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

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	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	550 feet per run
	Justification for New Transmission Line	Interim transmission line will be required to support interim antenna as tower work (2-4 months) progresses.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	Terrain Constrained
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1053536
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	37° 57' 26.0" N-
	Longitude (NAD83)	081° 09' 02.0" W-
	Overall Structure Height	717.85 feet
	Support Structure Height	629.85 feet

Ground Elevation Above Mean Sea Level (AMSL)	2717.85 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Thomas Broadcasting Co
Date Constructed	01/01/1954

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
12550	WOAY	AM
52789	WAXS	FM

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly 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	Terrain constrained
Helicopter Services Required	Are helicopter services required?	Yes

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Additional Rigging Costs	WOAY will engage tower crews three times. See attached narrative.
Structural Analysis	ERI conducted the Tower inspection, mapping and Structural analysis
Minor Tower Reinforcement Installation	Please see ERI proposal 20181008-510 Rev B for installation costs

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	700
	Explanation	Local engineering staff is extremely limited and unable to support this project without compromising day to day operations.
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	Yes
	For Auxiliary Facility	No
	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 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	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	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	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 Services Costs

Other Professional Services Expenses Not Listed

Information not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
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	Yes
	BLM or NFS Coordination	Yes
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
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
Road Work to Tower	To expand and improve the road to the tower for delivery of equipment and tower crew access.
Fiber Optic Network	Transfers HD and SD signals and control functions from the studio to the transmitter. Necessary to maintain on air operation during transition.
Modification of Ground System	For installation of transmitter building.

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 ULXTE-30	**$1,332,067.84**	**$909,717.84**		**$662,934.19**	
Other -- Building Addition Size: 575.0	***$167,000.00***	$167,000.00	N/A	N/A	N/A
20 Ton system	$115,500.00	$0.00	New HVAC units are being requested as part of the building addition because WOAY-TV has to build a new building for the new transmitter. The HVAC, which consists of four 5 ton units, is included in the cost of the building.	N/A	N/A

Other Electrical Service: Installation and materials for transmitter electrical, including connectors and wiring for new transmitter	***$24,417.84***	$24,417.84	Please see attached Justification document “Justification for WOAY RDP Electrical Services Plus, LLC invoice #103857 - Transmitter Other Electrical"	$24,417.84	N/A
Transformer 3 phase /480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	$14,400.00	$13,700.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	$947,000.00	$644,000.00	N/A	$638,516.35	N/A
Sub-total	$1,332,067.84	$909,717.84	N/A	$662,934.19	N/A
Total for all systems	$4,283,722.84	$3,450,628.08	N/A	$1,844,640.53	N/A

Components

Actual Information Description	File Name
Other -- Building Addition Size: 575.0	Information not provided.

20 Ton system	Information not provided.	
Other Electrical Service: Installation and materials for transmitter electrical, including connectors and wiring for new transmitter	**Component Description:** **Amount:**	THIS IS THE TOTAL FOR INVOICES NUMBERS 103998, 104000, 104001, 104002 $24,417.84
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	**Component Description:** **Amount:**	ULXTE-30 Transmitter $315,363.41
	Component Description: **Amount:**	ULXTE-30 Transmitter $323,152.94

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-8WB C160	**$333,045.00**	**$332,715.00**		**$39,362.50**	
Interim Antenna Installation Costs	***$281,390.00***	$281,390.00	Cost of installation and other work split with primary antenna. Please see ERI 20181008-510 Rev B	$13,700.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 20 kW input, horizontally polarized	***$44,925.00***	$44,925.00	Please see uploaded Dielectric quote 800289CMZ	$22,462.50	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	Please see uploaded Dielectric quote 800289CMZ	$3,200.00	N/A
Primary Antenna TFU-31JTH-R 04	**$901,700.00**	**$611,055.00**		**$210,019.95**	

Primary Antenna Installation	***$281,390.00***	$281,390.00	Cost of installation split with interim antenna. Please see ERI 20181008-510 Rev B	N/A	N/A
Mounting Adapter	***$62,250.00***	$62,250.00	Bury mounting adapter with wedding cake. This is a required expense for the antenna.	$0.00	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
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	$9,570.00	$9,100.00	N/A	$6,775.20	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$5,760.00	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$52,839.00	Remainder of the upgraded antenna per Dielectric Quote DMS113-5 & Proposal C-70885-5	$3,408.75	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	$247,000.00	$194,076.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$194,076.00	N/A
Sub-total	$1,234,745.00	$943,770.00	N/A	$249,382.45	N/A
Total for all systems	$4,283,722.84	$3,450,628.08	N/A	$1,844,640.53	N/A

Components

Actual Information Description	File Name	
Interim Antenna Installation Costs	**Component Description:** **Amount:**	UHF Sidemount 20 KW Installation Cost $13,700.00

UHF - High Power, Side Mount, basic slot antenna, 20 kW input, horizontally polarized	**Component Description:** **Amount:**	UHF - BROADBAND SIDE MOUNT AUX /INTERIM $20,862.50
	Component Description: **Amount:**	UHF BROADBAND SIDE MOUNT AUX /INTERIM $22,462.50
Sweep test of existing antenna	**Component Description:** **Amount:**	WOAY-280-Interim Antenna - Sweep Test $3,200.00
Primary Antenna Installation	Information not provided.	
Mounting Adapter	Information not provided.	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	**Component Description:** **Amount:**	Primary Antenna Elbow Complex $3,387.60
	Component Description: **Amount:**	Elbow Complex Primary Antenna $3,387.60

Sweep test of existing antenna	**Component Description:** **Amount:**	Primary Antenna Sweep Test $2,880.00
	Component Description: **Amount:**	Sweep Test Primary Antenna $2,880.00
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	WOAY-210-Primary Antenna - UHF High Power Top Mount, H-POL $3,408.75
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	**Component Description:** **Amount:**	UHF - HIGH POWER $97,038.00
	Component Description: **Amount:**	UHF - High Power Top Mount $97,038.00

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	**$40,700.00**	**$36,334.77**		**$19,139.78**	
Flexible Air Transmission Line - dielectric, 4"	$40,700.00	$36,334.77	see Justifying Quote WOAY Dielectric Quote 800289CMZ-2	$19,139.78	N/A
Primary Transmission Line	**$99,400.00**	**$94,500.00**		**$79,281.89**	
Rigid Transmission Line - copper, 4 1 /16"	$99,400.00	$94,500.00	Includes 100' of flexible transmission line for horizontal run to base of building.	$79,281.89	N/A
Sub-total	$140,100.00	$130,834.77	N/A	$98,421.67	N/A
Total for all systems	$4,283,722.84	$3,450,628.08	N/A	$1,844,640.53	N/A

Components

Actual Information Description	File Name

Flexible Air Transmission Line - dielectric, 4"	**Component Description:**	Other Flexline Angle ADPTR
	Amount:	$972.40
	Component Description:	WOAY-380-Interim Transmission Line - Flexible Air, 4"
	Amount:	$16,567.38
	Component Description:	WOAY-380-Interim Transmission Line - Flexible Air, 4"
	Amount:	$18,167.38

Rigid Transmission Line - copper, 4 1/16"	**Component Description:**	RLA450-350 REDUCER 50 OHM 4-1/16"-3-1/8"
	Amount:	$451.17
	Component Description:	RLA450-350 REDUCER 50 OHM 4-1/16"-3-1/8"
	Amount:	$482.99
	Component Description:	Primary Transmission Line
	Amount:	$36,021.81
	Component Description:	Primary Transmission Line
	Amount:	$36,021.80
	Component Description:	Freight and shipping
	Amount:	$6,304.12

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 Cos Justificatic
Primary Tower TOWER	**$1,155,450.00**	**$1,059,992.97**		**$750,172.97**	
Tower Helicopter Lift	***$52,050.00***	$52,050.00	See attached document - WOAY-410-Helicopter Lift Justification - ERI Invoice 54508	$52,050.00	N/A
Minor Tower Reinforcement Installation	***$38,300.00***	$38,300.00	Per Estimated Cost Justification WOAY-410-Existing Primary Tower - Minor Tower Reinforcement - Installation v0 ; Cost for minor tower modification material installation. Please see uploaded ERI Proposal 20181008-510 Rev B	$38,300.00	N/A
Structural Analysis	***$9,800.00***	$9,800.00	Please see attached ERI invoice; ERI Proposal #20180730-842,	$9,800.00	N/A

Additional Rigging Costs	***$450,000.00***	$450,000.00	This is additional cost to move equipment during and after the transition. See attached narrative for explanation.	$272,490.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$400,000.00	N/A	$267,690.00	N/A
Minor tower reinforcement /modifications	$158,000.00	$101,042.97	Per Estimated Cost Justification WOAY-410-Existing Primary Tower - Minor Tower Reinforcement - Materials v0 Cost for minor tower materials. Please see uploaded ERI Proposal 20181008-510 Rev B.	$101,042.97	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$8,800.00	Please see the attached ERI invoice.	$8,800.00	N/A
Sub-total	$1,155,450.00	$1,059,992.97	N/A	$750,172.97	N/A
Total for all systems	$4,283,722.84	$3,450,628.08	N/A	$1,844,640.53	N/A

Components

Actual Information Description	File Name	
Tower Helicopter Lift	**Component Description:** **Amount:**	ADDT'L HELICOPTER CHARGE $52,050.00
Minor Tower Reinforcement Installation	**Component Description:** **Amount:**	WOAY-410-Existing Primary Tower-Minor Tower Reinforcement-Installation $12,300.00
	Component Description: **Amount:**	Minor Tower Reinforcement Installation $26,000.00

Structural Analysis	**Component Description:**	Reinforcing Analysis and Design
	Amount:	$5,000.00
	Component Description:	Existing Primary Tower - Structural Analysis
	Amount:	$4,800.00
Additional Rigging Costs	**Component Description:**	Clearance for Antenna Staging
	Amount:	$4,800.00
	Component Description:	WOAY-410-Existing Primary Tower-Tower Rigging, Additional Rigging Costs
	Amount:	$133,845.00
	Component Description:	Tower Rigging, Additional Rigging Costs
	Amount:	$133,845.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	**Component Description:**	WOAY-410-Existing Primary Tower-Tower Rigging, Complex Tower
	Amount:	$133,845.00
	Component Description:	Tower Rigging, Complex Tower
	Amount:	$133,845.00

Minor tower reinforcement /modifications	**Component Description:** **Amount:**	Tower Reinforcement Materials & Antenna Installation $51,482.97
	Component Description: **Amount:**	Minor Tower Reinforcement Materials $49,560.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:** **Amount:**	Inspection, Structural analysis, Report $8,800.00

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	**$261,870.00**	**$248,812.50**		**$45,706.75**	
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	$1,650.00	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

NEPA Section 106 environmental review, if needed	$6,310.00	$6,000.00	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	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 engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,562.50	Per invoices received	$1,562.50	Actual cost for this component is $1,562.50.
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	$2,700.00	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	$110,600.00	$105,000.00	N/A	$39,794.25	N/A
Sub-total	$261,870.00	$248,812.50	N/A	$45,706.75	N/A
Total for all systems	$4,283,722.84	$3,450,628.08	N/A	$1,844,640.53	N/A

Components

Actual Information Description	File Name	
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	**Component Description:** **Amount:**	Regarding installation of repack CH-31 main antenna, review FAA Determination of No Hazard as issued... $1,650.00
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.	
NEPA Section 106 environmental review, if needed	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	WOAY RF Eng-Construction Permit Application $1,562.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Consulting Engineer $1,125.00
	Component Description: **Amount:**	Consulting Engineer - Review antenna vendor proposals for interim antenna system for operation on pre-auction Ch-50 and repack Ch-31. $762.50
	Component Description: **Amount:**	Professional services $812.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	**Component Description:** **Amount:**	Project Management $1,298.60
	Component Description: **Amount:**	Project Management $3,162.35
	Component Description: **Amount:**	Project Management $3,196.65

Component Description: Project Management
Amount: $2,186.65

Component Description: Project Management
Amount: $2,510.30

Component Description: Project Management
Amount: $2,108.60

Component Description: Project Management
Amount: $6,756.45

Component Description: Project Management
Amount: $2,892.70

Component Description: Project Management
Amount: $2,805.50

Component Description: Project Management
Amount: $1,739.20

Component Description: Project Management
Amount: $3,763.20

Component Description: Project Management
Amount: $2,725.70

Component Description:	Project Management
Amount:	$3,624.35
Component Description:	Project Management
Amount:	$1,024.00
Component Description:	Please deny this invoice
Amount:	N/A

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	**$159,490.00**	**$157,500.00**		**$22,247.50**	
Modification of Ground System	***$13,000.00***	$13,000.00	N/A	N/A	N/A
Fiber Optic Network	***$8,500.00***	$8,500.00	Transfers HD and SD signals and control functions from the studio to the transmitter. Required to remain on air during the transition.	N/A	N/A
Road Work to Tower	***$20,000.00***	$20,000.00	N/A	$20,000.00	N/A
MVPD Notification of Channel Change	***$500.00***	$500.00	N/A	$0.00	N/A
Develop and air announcement of upcoming channel change	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Equipment Storage	***$20,000.00***	$20,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	***$20,000.00***	$20,000.00	N/A	$0.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$25,000.00***	$25,000.00	N/A	N/A	N/A
BLM or NFS Coordination	***$2,000.00***	$2,000.00	N/A	N/A	N/A
Non-zoning permits	***$2,000.00***	$2,000.00	N/A	N/A	N/A
Local Zoning	***$3,000.00***	$3,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$2,247.50	N/A
AM Pattern Disturbance -- Remedy	$21,050.00	$20,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Impact study	$7,890.00	$7,500.00	N/A	N/A	N/A
Sub-total	$159,490.00	$157,500.00	N/A	$22,247.50	N/A
Total for all systems	$4,283,722.84	$3,450,628.08	N/A	$1,844,640.53	N/A

Components

Actual Information Description	File Name
Modification of Ground System	Information not provided.
Fiber Optic Network	Information not provided.

Road Work to Tower	**Component Description:** **Amount:**	Construction for WOAY-TV Tower Road $20,000.00
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	**Component Description:** **Amount:**	WOAY-610-Equipment Storage $15,775.00
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
BLM or NFS Coordination	Information not provided.	
Non-zoning permits	Information not provided.	
Local Zoning	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	WOAY Medical Notification $2,247.50
AM Pattern Disturbance -- Remedy	Information not provided.	
AM Pattern Disturbance -- Impact study	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$4,283,722.84	$3,450,628.08	$1,844,640.53

Reimbursement Status

Question	Response
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
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.	**Gerald A. DiBartolomeo, III .** *Vice President* 02/28/2020

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.	**Gerald A. DiBartolomeo, III .** *Vice President* 02/28/2020

Attachments