

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

66804 Service: DTV Channel: 31 (UHF) Facility Call **WOAY-TV** Sign:

ID:

File 0000028554

Number:

FRN: 0006611263 Date 04/07

> Submitted: /2021

#### **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 Name and Information Reimbursement Contact 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	
Manufacturer and Type	Model	Sigma CD3 Diamond
	Year	2008
	Туре	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	19.2 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**

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

	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
	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?	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

Name	Description
Other Services Hardware and Software	Other Services Hardware and Software

#### **Antennas**

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

# **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	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)	600.0 kW

Manufacturer	
Model	TFU32DSB- A(C)
Year	2008

# **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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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 /VP-R O4
Year	2017
Justification for New Antenna	The current antenna cannot be re-tuned.

#### **Other Antenna Costs**

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

# **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	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/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
Justification for New Antenna	
	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 <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission Line

# **Existing Transmission Line**

on 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	
	Туре	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

#### **New Transmission Line**

Primary
<b>Transmission</b>

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	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
	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.

Other Transmission Line Expenses Not Listed

Primary
Transmission Line

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Iranci	MICCIAI	1 Ina	<ul> <li>Additional</li> </ul>	I Darte

Flanges, Connectors, Reducer and additional parts needed for new transmission line

# Interim

# **New Transmission Line**

ransmissio	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Flexible Air
		Diameter	4 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
		Length	550 feet per
	Justification for New Transmission Line	Interim transmission line will be required to support interim antenna as tower work (2-4 months) progresses.	

Interim 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?	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	Do you have a tower registration number?	Yes
Registration	ASR Number	1053536
Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	37° 57' 26.0" N-
1983))	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
52789	WAXS	FM
12550	WOAY	AM

# 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
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Tower Rigging Costs	Complex Tower	Terrain constrained
Helicopter Services Required	Are helicopter services required?	Yes

# Primary Tower

# Other Tower Expenses Not Listed

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

# Outside Professional

Section	Question	Response
Services Costs 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 Expenses Not Listed
Professional Services © Opstsided.

# 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	\$2,039,359.83	\$927,436.69		\$652,300.91	
Other Electrical Service: Installation and materials for transmitter electrical, including connectors and wiring for new transmitter	\$24,489.83	\$24,489.83	Please see Estimated Cost Justification WOAY-110- 1st Primary Transmitter - Other Electrical Work v0	\$24,489.83	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 14.2 - 20 kW	\$684,000.00	\$323,063.45	Please see attached GatesAir Quote Q- 78932	\$312,447.67	N/A

Other Services Hardware and Software	\$23,220.00	\$23,220.00	Please see WOAY Ateme WOAY 1HD+1SD ATSC Quote	\$0.00	N/#
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
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$315,363.41	***System Notice: Estimate adjusted and locked because line has been superseded.	\$315,363.41	N/#

Sub-total	\$2,039,359.83	\$927,436.69	N/A	\$652,300.91	N/A
Total for all systems	\$4,991,948.99	\$3,475,518.49	N/A	\$1,985,701.87	N/A

# Components

Components		
Actual Information Description	File Name	
Other Electrical Service: Installation and materials for transmitter electrical, including connectors and wiring for new transmitter	Component Description: Amount:	Electrical Work \$24,489.83
	Component Description:	THIS IS THE TOTAL FOR INVOICES NUMBERS 103998, 104000, 104001, 104002
	Amount:	\$24,417.84
Switchgear - industrial 800 amp	Information not provided.	
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description: Amount:	ULXTE-30 Transmitter \$312,447.67
Other Services Hardware and Software	Component Description: Amount:	TITAN-LIVE-BY- HD-INPUT \$23,220.00
Other Building Addition Size: 575.0	Information not provided.	
20 Ton system	Information not provided.	

Transformer 3 phase/480v - 150 KVA	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description:	Invoice moved as category was superseded per NMI msg.
	Amount:	N/A
	Component Description:	ULXTE-30 Transmitter
	Amount:	\$315,363.41

# **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		\$63,425.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see uploaded Dielectric quote 800289CMZ	\$6,400.00	N/A
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	\$43,325.00	N/A
Primary Antenna TFU-31JTH /VP-R O4	\$901,700.00	\$611,055.00		\$233,996.00	

Primary Antenna Installation	\$281,390.00	\$281,390.00	Cost of installation split with interim antenna. Please see ERI 20181008-510 Rev B	\$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	\$7,528.00	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	\$4,388.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A

Mounting Adapter	\$62,250.00	\$62,250.00	Bury mounting adapter with wedding cake. This is a required expense for the antenna.	\$21,604.00	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	\$297,421.00	N/A
Total for all systems	\$4,991,948.99	\$3,475,518.49	N/A	\$1,985,701.87	N/A

# Components

File Name	
Component Description: Amount:	WOAY-280-Interim Antenna - Sweep Test \$3,200.00
Component Description:  Amount:	WOAY- Includes one field engineer on-site for one day, travel, expenses and report \$3,200.00
	Component Description:  Amount:  Component Description:

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
Primary Antenna Installation	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:	WOAY-210-Primary Antenna - Elbow Complex, 4 1/16" \$752.80
	Component Description: Amount:	Elbow Complex Primary Antenna \$3,387.60
	Component Description:  Amount:	Primary Antenna Elbow Complex \$3,387.60

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Field Service \$4,388.00
	Component Description:	Invoice moved to correct budget categories.
	Amount:	N/A
Sweep test of existing antenna	Component Description:	WOAY-210-Primary
	Amount:	Antenna - Sweep Test \$640.00
	Component Description:	Sweep Test Primary Antenna
	Amount:	\$2,880.00
	Component Description:	Primary Antenna Sweep Test
	Amount:	\$2,880.00
Mounting Adapter		DIOID
	Component Description:	RIGID TRANSMISSION LINE- COPPER
	Amount:	\$21,604.00
UHF - High Power Top Mount (200-1000 kW),		1111E 117 1 B
One station antenna,	Component Description:	UHF - High Power Top Mount
horizontally polarized	Amount:	\$97,038.00
	Component Description:	UHF - HIGH

# **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 Cos
Interim Transmission Line	\$40,700.00	\$42,572.17		\$38,907.16	
Flexible Air Transmission Line - dielectric, 4"	\$40,700.00	\$42,572.17	see Estimated Cost Justification WOAY-380- Interim Transmission Line - Flexible Air, 4in v0	\$38,907.16	N/A
Primary Transmission Line	\$100,334.16	\$95,434.16		\$80,982.61	
Transmission Line - Additional Parts	\$934.16	\$934.16	Please see ERI Proposal 20191008- 976, plus freight on invoice WOAY- 36283C-1	\$934.16	х
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.	\$80,048.45	N/A
Sub-total	\$141,034.16	\$138,006.33	N/A	\$119,889.77	N/A
Total for all systems	\$4,991,948.99	\$3,475,518.49	N/A	\$1,985,701.87	N/A

# Components

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 4"	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:	\$3,200.00
	Component Description:	Other Flexline Angle ADPTR
	Amount:	\$972.40
	Component Description:	WOAY-380- Interim Transmission Line - Flexible Air, 4"
	Amount:	\$18,167.38
Transmission Line - Additional Parts	Component Description:	RLA450-350 REDUCER 50 OHM 4-1/16"-3-1
	Amount:	/8" \$482.99
	Component Description:	RLA450-350 REDUCER 50 OHM 4-1/16"-3-1 /8"
	Amount:	\$451.17

Rigid Transmission Line - copper, 4 1/16"

Component Description: WOAY-310-

Primary

Transmission Line
- Rigid Copper, 4 1

/16"

**Amount:** \$8,004.84

Component Description: Invoice moved to

correct budget category per NMI

message

Amount: N/A

Component Description: Primary

Transmission Line

**Amount:** \$36,021.80

Component Description: Invoice moved to

correct budget categories.

Amount: N/A

Component Description: Primary

Transmission Line

**Amount:** \$36,021.81

Component Description: RLA450-350

REDUCER 50

OHM 4-1/16"-3-1

/8"

**Amount:** \$482.99

### **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 Co
Primary Tower TOWER	\$1,155,450.00	\$1,059,992.97		\$754,997.97	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	\$272,515.00	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
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

Sub-total	\$1,155,450.00	\$1,059,992.97	N/A	\$754,997.97	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
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
Analysis	\$9,800.00		attached ERI invoice; ERI Proposal #20180730- 842,		

Total for all	\$4,991,948.99	\$3,475,518.49	N/A	\$1,985,701.87	N/A
systems					

#### Components

Actual Information		
Description	File Name	
Complex Tower (includes,		
for example, those with candelabras and/or	Component Description:	ADDITIONAL WORK ON TOWER
stacked antennas)	Amount:	\$2,875.00
	Component Description:	WOAY-410-
		Existing Primary
		Tower-Tower
		Rigging, Complex Tower
	Amount:	\$133,845.00
	Component Description:	RF INSTALLATION
	Amount:	\$1,950.00
	Component Description:	Tower Rigging,
		Complex Tower
	Amount:	\$133,845.00
Minor tower reinforcement		
modifications	Component Description:	Minor Tower
		Reinforcement
	Amount:	Materials \$49,560.00
	Amount.	φ4 <del>9</del> ,300.00
	Component Description:	Tower
		Reinforcement
		Materials &
		Antenna Installation

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
Structural Analysis		
	Component Description:	Reinforcing
		Analysis and
	Amount:	Design \$5,000.00
	Amount.	ψ3,000.00
	Component Description:	Existing Primary
		Tower - Structural
		Analysis
	Amount:	\$4,800.00
Minor Tower		
Reinforcement Installation	Component Description:	WOAY-410-
		Existing Primary
		Tower-Minor Tower
		Reinforcement-
	A	Installation
	Amount:	\$12,300.00
	T. Company of the Com	
	Component Description	Minor Tower
	Component Description:	Minor Tower Reinforcement
	Component Description:	Minor Tower Reinforcement Installation

	Component Description:	ADDT'L
		HELICOPTER
		CHARGE
	Amount:	\$52,050.00
Fower mapping for an undocumented/poorly		
documented tower and	Component Description:	Inspection,
preparation of		Structural analysis
·		Report
documentation necessary	Amount:	\$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		\$106,071.85	
Project management of the transition	\$110,600.00	\$105,000.00	N/A	\$100,159.35	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
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Sub-total	\$261,870.00	\$248,812.50	N/A	\$106,071.85	N/A
Total for all systems	\$4,991,948.99	\$3,475,518.49	N/A	\$1,985,701.87	N/A

### Components

-		
Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$3,532.30
	Component Description: Amount:	Project Management \$5,012.65
	Component Description: Amount:	Project Management \$3,016.85
	Component Description: Amount:	Project Management \$3,345.40

**Component Description:** 

**Project** Management

Amount:

\$3,196.65

**Component Description:** 

**Project** 

Amount:

Management \$4,104.10

**Component Description:** 

**Project** 

Amount:

Management

\$4,019.80

**Component Description:** 

**Project** 

Amount:

Management

\$2,108.60

**Component Description:** 

Project

Management

\$6,756.45

**Component Description:** 

**Project** 

Management

Amount:

Amount:

\$2,892.70

**Component Description:** 

**Project** 

Amount:

Management

\$2,805.50

**Component Description:** 

**Project** 

Amount:

Management \$4,843.70

**Component Description:** 

**Project** 

**Amount:** 

Management

\$1,739.20

**Component Description:** Project

Amount: Management \$5,808.05

**Component Description:** Project

Management

**Amount:** \$9,742.90

Component Description: Project

Management

**Amount:** \$741.25

Component Description: Project

Management

**Amount:** \$3,011.65

Component Description: Please deny this

invoice

Amount: N/A

Component Description: Project

Management

**Amount:** \$3,162.35

**Component Description:** Project

Management

**Amount:** \$2,186.65

**Component Description:** Project

Management

**Amount:** \$3,802.65

Component Description: Project

Management

**Amount:** \$2,510.30

**Component Description:** 

Amount:

Project

Management \$1,024.00

**Component Description:** 

Project

Amount:

Management

\$2,725.70

**Component Description:** 

**Project** 

Management

Amount:

\$1,298.60

**Component Description:** 

Project

Amount:

Management \$3,624.35

Component Description:

Project

Management

Amount:

\$7,263.35

**Component Description:** 

Project

Management

Amount:

\$2,120.45

**Component Description:** 

Project

Amount:

Management

\$3,763.20

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
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:	Consulting
	Amount:	Engineer \$1,125.00
	Component Description	Professional
	Component Description:	services
	Amount:	\$812.50
	Component Description:	Consulting
		Engineer - Review antenna vendor
		proposals for
		interim antenna
		system for
		operation on pre-
		auction Ch-50 and repack Ch-31.
	Amount:	\$762.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
RF Exposure Measurements	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	\$159,490.00	\$157,500.00		\$55,020.37	
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
MVPD Notification of Channel Change	\$500.00	\$500.00	N/A	\$0.00	N/A
Equipment Delivery and Handling Charges	\$20,000.00	\$20,000.00	N/A	\$14,977.87	N/A
Local Zoning	\$3,000.00	\$3,000.00	N/A	N/A	N/A
AM Pattern Disturbance Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A
Road Work to Tower	\$20,000.00	\$20,000.00	N/A	\$20,000.00	N/A

Develop and air announcement	\$5,000.00	\$5,000.00	N/A	N/A	N/A
of upcoming channel change					
Equipment Storage	\$20,000.00	\$20,000.00	N/A	\$17,795.00	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
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
Sub-total	\$159,490.00	\$157,500.00	N/A	\$55,020.37	N/A
Total for all systems	\$4,991,948.99	\$3,475,518.49	N/A	\$1,985,701.87	N/A

### Components

Actual Information Description	File Name
Modification of Ground System	Information not provided.
Fiber Optic Network	Information not provided.
MVPD Notification of Channel Change	Information not provided.

Equipment Delivery and Handling Charges	Component Description: Amount:	Freight and Shipping \$5,265.00	
	Component Description: Amount:	Delivery and Handling \$9,712.87	
Local Zoning	Information not provided.		
AM Pattern Disturbance Impact study	Information not provided.		
Road Work to Tower	Component Description:	Construction for WOAY-TV Tower Road	
	Amount:	\$20,000.00	
Develop and air announcement of upcoming channel change	Information not provided.		
Equipment Storage	Component Description:	WOAY-610- Equipment Storage	
	Amount:	\$2,020.00	
	Component Description:	WOAY-610- Equipment Storage	
	Amount:	\$15,775.00	
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.		

DTV Medical Facility Notification	Component Description: Amount:	WOAY Medical Notification \$2,247.50
AM Pattern Disturbance Remedy	Information not provided.	

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,991,948.99	\$3,475,518.49	\$1,985,701.87

Reimbursem	envestiarus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	Yes
	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. Gerald A.
DiBartolomeo
, III .
Vice President

04/07/2021

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. Gerald A.
DiBartolomeo
, III .
Vice President

04/07/2021

Section Question Response

Submission of Final Allocation or Accounting Information 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 and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The abovenamed entity acknowledges that all certifications and attached documentation are considered material representations.
- 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
- 4. 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.
- 5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 6. 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. Gerald A.
DiBartolomeo
, III .
Vice President

04/07/2021

#### **Attachments**