



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **25932** | Service: **DTV** | Call **WHRO-TV** | Channel: **31 (UHF)**
ID:
File **0000027736**
Number:
FRN: **0002062511** | Date **09/07**
Submitted: **/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Hampton Roads Educational Telecommunications Association, Inc.	Chris G. Gunnufsen 5200 HAMPTON BOULEVARD NORFOLK, VA 23508 United States	+1 (757) 889-9394	chris.gunnufsen@whro.org	Not-for-Profit

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

Broadcaster Information and Transition Plan

Question	Response
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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	The transition plan is being handled by the Owner of the Tower, American Tower Corporation. The tower is complicated due to the total number of broadcasters collocated on the tower. There will be a Wide Band interim antenna side mounted on the tower 987'

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	DCX Millenium
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	HPTV PRLX- U36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	58 kW
	Justification for New Transmitter	The Channels are to Far apart for Re- tuning. Channel 16 Pre and Channel 31 post Repacking. This has been verified with Hitachi Comark LLC. Manufacturer of the existing channel 16 antenna. The IOT Transmitters has been replaced by the Parallax SS

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	300.0 feet
	Other Electrical Service	Yes
	Description	Installation of Transmitter Electrical systems
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	1500.0 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
Primary Transmitter - HVAC	2 20 ton A/C units for primary transmitter, separate from combiner system HVAC
Primary Transmitter - Installation	Primary Transmitter - Installation
Primary Transmitter - Demo Old Duct Work	Primary Transmitter - Demo Old Duct Work
Primary Transmitter - Distilled Water	Primary Transmitter - Distilled Water

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	Lease 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?	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	Bottom
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	TFU- 24GBH-R 08SP
Year	2000

**Primary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Lease New
	Is this a request for upgraded equipment?	Yes
	Ownership	Leased
	Owner	American Tower LLC
	Is antenna shared?	Yes
	Is antenna directional?	No
	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	4
	Number of Panels/Bays	70
	Lower Limit	470.00 MHz
	Upper Limit	700.00 MHz
	Design power capacity in use	41.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1950.0 kW
	Manufacturer	

Model	PEP70E-05-2-T
Year	2019
Justification for New Antenna	Combining Stations to reduce load and Total FCC Costs

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	4
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	8 3/16 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?	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
20
16
31
33

Primary
Antenna

Other Antenna Cost Not Listed

Name	Description
Combiner Installation	ATC Estimated Costs for line item 3-C-2

**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	American Tower Corp
	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	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	5
	Number of Panels/Bays	24
	Lower Limit	482.00 MHz
	Upper Limit	590.00 MHz
	Design power capacity in use	75.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	60.0 kW
	Manufacturer	
	Model	SBB-EPD- 24 C160

Year	2018
Justification for New Antenna	Complex antenna structure with multiple stations trying to remain on the air during the transition to new channels. See American Tower Plan.

Interim 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	5
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	7 3/16 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

Enter a list of RF channel numbers.

RF Channel Number
16
20
31
32
33

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Interim Tower Rental	One time tower rental during repack line item 1-B-1
Interim Antenna - New Combiner Installation	Interim Antenna - New Combiner Installation

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	Lease New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	American Tower LLC
	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	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1307 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	Lease New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1350 feet per run
	Justification for New Transmission Line	Part of a shared Broadband antenna system

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Combiner system	Combiner system for shared Broadband antenna
Primary Transmission Line - Nitrogen Generator	Primary Transmission Line - Nitrogen Generator
Primary Transmission Line - Other Parts	Primary Transmission Line - Other Parts

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	8 3/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1100 feet per run
	Justification for New Transmission Line	Single run Dielectric 8-3/16" Digitline with 950 ft vertical plus 150 ft. run equals 1100 ft. total; Includes nitrogen generator plus 200' of vertical run to get to the combiner network in ATC owned building located in the compound total WHRO 1300

Interim
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Transmission line interim	200 Ft of 6 1/8 " line to connect to the Wibeband Interim antenna located in the ATC building approx 200 ft away.
Interim Transmission Line - Other Parts	Interim Transmission Line - Other Parts
Elbows	3 Elbows are needed to connect a new sections of 6 1/8' line to the interim broadband antenna located in American Tower owned building.
Interim Transmission Line - Nitrogen Generator	Interim Transmission Line - Nitrogen Generator

**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	Leased
	Is this tower consider Complex?	Candelabra
	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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1057874
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 48' 31.8" N-
	Longitude (NAD83)	076° 30' 11.3" W-
	Overall Structure Height	1258.84 feet
	Support Structure Height	1254.91 feet
	Ground Elevation Above Mean Sea Level (AMSL)	22.97 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	02/03/2006

**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
40759	WTVZ-TV	DTV
9762	WGNT	DTV
82574	WTPC-TV	DTV
67077	WPXV-TV	DTV
25940	WHRO-FM	FM
47401	WTKR	DTV
25932	WHRO-TV	DTV
25933	WHRV	FM

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
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	Candelabra
Helicopter Services Required	Are helicopter services required?	Yes

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Tower Construction Project Management	Tower Construction Project Management
Tower Permit Drawing Package	Tower Permit Drawing Package

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	770
	Explanation	This is for the project management costs associated with American Tower Corporation. This is a very complicated site and will require Project management from all Broadcasters collocated on the tower. Est is based on Previous conversion to digital in 2001
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	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	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	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	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes

RF exposure measurements	Yes
Additional Field Engineering Service	No
Number of Days	N/A
Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Migratory Bird Assessment	Tower located in a migratory Bird Path
RF System Test	Testing of the combiner to ensure all one (1) frequencies are tuned for optimal patterns.
Site Coordination Meeting	Site coordination meetings with all broadcasters, contractors and vendors involved with the site deliveries and construction. This cost is for travel and logistics expenses accrued.
Ground and Building Drawing Package	Ground & Building A&E Permit Drawing Package

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	Yes
	BLM or NFS Coordination	Yes
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
ATC One Time Tower Rental	ATC have 3 repack customers, one non repacked customer and one new customer on the Norfolk TT. The interim Main side mount antenna will allow the broadcasters to minimize their OTA disruption, maintain their coverage contour, complete in safe manner
Comark System Design and Site Survey	Cost associated with Hitachi Comark to do a site visit and design for the Transmitter installation
Grading Road	The Gravel Road Will be destroyed during the repacking and will require several Gradings during the process due to the complexity of the site and total number of broadcasters impacted
Public Hearing	Cost associated with Public hearings that might be required due to the repacking process and proximity of houses located around the tower
Site Security	Site Security Company during construction for theft prevention and vandalism
Special Insurance Rider	Special insurance rider will need to be purchased by WHRO for the Homes located within 1000' ft of the tower. WHRO owns all of the property surrounding the tower America Tower Leases only a small portion of the ground space, Anchor point Base and Buildin
VSWR Sweep Test	VSWR Sweep Test
Equipment Rental	Equipment Rental
Helicopter Landing Site Prep	Helicopter Landing Site Prep

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 HPTV PRLX-U36	\$2,266,560.06	\$2,616,515.39		\$2,047,221.18	
Primary Transmitter - Installation	<i>\$279.00</i>	\$279.00	Please see WHRO Primary Transmitter Installation Budget Justification Letter	\$279.00	N/A
Primary Transmitter - Distilled Water	<i>\$1,355.00</i>	\$1,355.00	Please see WHRO-TV Primary Transmitter - Other - Distilled Water Budget Revision Justification Letter	\$1,355.00	N/A
Primary Transmitter - Demo Old Duct Work	<i>\$1,717.39</i>	\$1,717.39	Please see WHRO-TV Primary Transmitter - Demo Old Duct Work Budget Revision Justification Letter.pdf	\$1,717.39	N/A

Primary Transmitter - HVAC	\$62,860.00	\$62,860.00	Please see Thermo-Trol Systems Proposal #2008-22DG & Invoice #7182717. pdf	\$62,860.00	N/A
Other -- Building Addition Size: 1500.0	\$3,948.67	\$3,948.67	Please see Estimated Cost Justification WHRO-TV-110-1st Primary Transmitter - Building Addition, 1500 sq. ft. v0	\$3,948.67	N/A
25 Ton system	\$91,500.00	\$12,734.33	Please see American Tower WHRO Main Norfolk Tall Tower 10152 Customer Project Cost Estimation.	\$12,734.33	N/A
Other Electrical Service: Installation of Transmitter Electrical systems	\$200,000.00	\$200,000.00	N/A	\$5,636.79	N/A

4" Rigid Conduit and Wiring (Cost per foot)	\$30,300.00	\$28,800.00	After Digital conversion in 2009 all conduits and switch gear was removed that connected to the analog transmitter.	\$0.00	N/A
Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$276,401.00	This is to replace the existing 3 wire 600 KVA Clean source UPS with a 4 wire 500KVA Clean Source UPS from Pillar Formerly Active Power	\$0.00	The Existing 3 wire 600 Kva UPS from Active power is not compatible with any solid state transmitter. The replacement is a 4 wire 500 kva UPS from Active power a division of Pillar power systems.
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$0.00	N/A

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,992,120.00	Includes 342,120 dollars for the RFS 6 pole filter and switches to change from the interim antenna to the main antenna	\$1,958,690.00	N/A
Sub-total	\$2,266,560.06	\$2,616,515.39	N/A	\$2,047,221.18	N/A
Total for all systems	\$6,909,118.67	\$4,868,839.66	N/A	\$3,769,422.83	N/A

Components

Actual Information		
Description	File Name	
Primary Transmitter - Installation	Component Description:	WHRO-TV-110-1st Primary Transmitter - Installation
	Amount:	\$279.00
Primary Transmitter - Distilled Water	Component Description:	Distilled Water
	Amount:	\$1,355.00
Primary Transmitter - Demo Old Duct Work	Component Description:	Sheet Metal
	Amount:	\$1,717.39
Primary Transmitter - HVAC	Component Description:	Install two 20-Ton A /C Systems
	Amount:	\$62,860.00

Other -- Building Addition Size: 1500.0	<div> <div> Component Description: 1. WHRO-TV-110-1st Primary Transmitter - Building Addition, 1500 sq. ft. </div> <div> Amount: \$3,478.67 </div> </div> <div> <div> Component Description: Erected Scaffold, hung protective poly, Core drill holes </div> <div> Amount: \$470.00 </div> </div>
25 Ton system	<div> <div> Component Description: CAPITAL CONTRIBUTION - NORFOLK TALL TOWER </div> <div> Amount: \$12,734.33 </div> </div>
Other Electrical Service: Installation of Transmitter Electrical systems	<div> <div> Component Description: 18-8 Stainless Steel Threaded Rod </div> <div> Amount: \$82.75 </div> </div> <div> <div> Component Description: Strut Channel, Low-Profile </div> <div> Amount: \$294.53 </div> </div> <div> <div> Component Description: 18-8 Stainless Steel Hex Head Screw </div> <div> Amount: \$199.52 </div> </div> <div> <div> Component Description: Install receptacle for combiner </div> <div> Amount: \$354.91 </div> </div>

Component Description:	Run fish-tape between buildings
Amount:	\$685.00

Component Description:	Black-Oxide Alloy Steel Hex Drive Flat Head Screw, 7/16" -14 Thread Size
Amount:	\$206.29

Component Description:	Four-Arm Extended- Tip Thumb Screw
Amount:	\$44.92

Component Description:	18-8 Stainless Steel Hex Nut
Amount:	\$193.36

Component Description:	High-Strength Grade 8 Steel Hex Head Screw
Amount:	\$54.78

Component Description:	Belleville Disc Spring for 3/8" Shaft Diameter
Amount:	\$145.12

Component Description:	18-8 Stainless Steel Threaded Rod, 5/8" -11 Thread Size
Amount:	\$192.50

Component Description:	Nylon Mesh Cushioned Sanding Pad
Amount:	\$113.21

	Component Description: 9"X3"DX12"L Chalfant	
	Amount: \$2,649.55	
	Component Description: Zinc Yellow- Chromate Plated Hex Head Screw	
	Amount: \$182.03	
	Component Description: 18-8 Stainless Steel Hex Head Screw	
	Amount: \$36.54	
	Component Description: Bolt-Down Swivel Leveling Mount with Cushion	
	Amount: \$57.45	
	Component Description: Male-Female Threaded Hex Standoff	
	Amount: \$47.33	
	Component Description: COPPER STRAP, 2in. x .032in. x 25ft.	
	Amount: \$97.00	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 500 KVA	Component Description: UPS	
	Amount: \$276,401.00	
	Component Description: Invoice to be resubmitted to LMS.	
	Amount: N/A	

Switchgear - industrial 800 amp	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	Parallax 58kW Liquid Cooled Digital Transmitter \$881,410.50
	Component Description: Amount:	Parallax 58kW Liquid Cooled Digital Transmitter \$979,345.00
	Component Description: Amount:	Parallax 58kW liquid cooled digital \$97,934.50
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A

**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 SBB-EPD- 24 C160	\$440,609.28	\$312,858.61		\$252,275.27	
Interim Antenna - New Combiner Installation	<i>\$9,814.28</i>	\$9,814.28	Please see Estimated Cost Justification WHRO-TV- 280-Interim Antenna - New Combiner Installation v0	\$9,814.28	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$8,500.00	Shared cost with Other Broadcasters being repacked See WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$0.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$5,851.20	Please see WHRO American Tower quote Main Norfolk Tall Tower 10152	\$5,851.20	N/A

Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$50,000.00	Shared Costs See American Tower document: WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates plus 10,000.00 as shared installation Costs line item 3-C-2	\$0.00	25 percent payment on combiners
New combiner, cost per channel (without antenna)	\$84,200.00	\$56,494.80	see Estimated Cost Justification WHRO-TV- 280-Interim Antenna - New Combiner v0	\$56,494.80	Combiner 25 % payment
Sweep test of existing antenna	\$6,730.00	\$8,333.33	Shared expense with Other Broadcasters Being repacked See American Tower Document: WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$6,249.99	25 percent payment for sweep tests

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, directional,, elliptically or circularly polarized	\$116,265.00	\$116,265.00	Please see American Tower WHRO Main Norfolk Tall Tower 10152 Customer Project Cost Estimation.	\$116,265.00	N/A
Interim Tower Rental	\$57,600.00	\$57,600.00	Interim antenna Tower rental during repack	\$57,600.00	N/A
Primary Antenna PEP70E-05-2-T	\$1,339,213.33	\$421,883.33		\$270,665.96	
Combiner Installation	\$13,333.33	\$13,333.33	Per station combiner installation costs	\$9,999.99	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$12,000.00	N/A	\$10,021.66	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$126,000.00	N/A	\$0.00	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$66,000.00	N/A	\$65,589.98	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,000.00	N/A
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$198,150.00	This is the per cost per station with 4 station total using the BBA	\$180,054.33	N/A
Sub-total	\$1,779,822.61	\$734,741.94	N/A	\$522,941.23	N/A
Total for all systems	\$6,909,118.67	\$4,868,839.66	N/A	\$3,769,422.83	N/A

Components

Actual Information	
Description	File Name
Interim Antenna - New Combiner Installation	
	Component Description:
	Amount:
	Misc. supplies \$132.68
	Component Description:
	Amount:
	25. WHRO-TV-280-Interim Antenna - New Combiner Installation \$9,681.60

Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<div> <div> Component Description: Amount: </div> <div> 3. WHRO-TV-280-Interim Antenna - 7 3/16" Broadband Elbow Complex \$1,000.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> 3. WHRO-TV-280-Interim Antenna - 7 3/16" Broadband Elbow Complex \$2,000.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> 24. WHRO-TV-280-Interim Antenna - 7 3/16" Broadband Elbow Complex \$2,851.20 </div> </div>
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.

New combiner, cost per channel (without antenna)		
	Component Description:	21. WHRO-TV-280-Interim Antenna - New Combiner
	Amount:	\$11,000.00
	Component Description:	23. WHRO-TV-280-Interim Antenna - New Combiner
	Amount:	\$23,494.80
	Component Description:	21. WHRO-TV-280-Interim Antenna - New Combiner
	Amount:	\$22,000.00
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

Sweep test of existing antenna		
	Component Description:	22. WHRO-TV-280-Interim Antenna - Sweep Test
	Amount:	\$2,083.33
	Component Description:	22. WHRO-TV-280-Interim Antenna - Sweep Test
	Amount:	\$4,166.66
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, directional,, elliptically or circularly polarized		
	Component Description:	20. WHRO-TV-280-Interim Antenna - UHF High Power Side Mount, Directional, E-POL
	Amount:	\$15,000.00
	Component Description:	22. WHRO-TV-280-Interim Antenna - UHF High Power Side Mount, Directional, E-POL
	Amount:	\$71,265.00
	Component Description:	20. WHRO-TV-280-Interim Antenna- UHF High Power Side Mount, Directional, E-POL
	Amount:	\$30,000.00
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

Interim Tower Rental	<div> <div>Component Description:</div> <div>23. WHRO-TV-280-Interim Antenna - Interim Tower Rental</div> </div> <div> <div>Amount:</div> <div>\$28,800.00</div> </div>
	<div> <div>Component Description:</div> <div>26. WHRO-TV-280-Interim Antenna - Interim Tower Rental</div> </div> <div> <div>Amount:</div> <div>\$14,400.00</div> </div>
	<div> <div>Component Description:</div> <div>Invoice to be resubmitted to LMS.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
	<div> <div>Component Description:</div> <div>23. WHRO-TV-280-Interim Antenna - Interim Tower Rental</div> </div> <div> <div>Amount:</div> <div>\$14,400.00</div> </div>
	<div> <div>Component Description:</div> <div>Invoice to be resubmitted to LMS.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>

Combiner Installation	<div> <div>Component Description:</div> <div>2. WHRO-TV-210-Primary Antenna - Combiner Installation</div> </div> <div> <div>Amount:</div> <div>\$6,666.66</div> </div>
	<div> <div>Component Description:</div> <div>Invoice to be resubmitted to LMS.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
	<div> <div>Component Description:</div> <div>Invoice to be resubmitted to LMS.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
	<div> <div>Component Description:</div> <div>2. WHRO-TV-210-Primary Antenna - Combiner Installation</div> </div> <div> <div>Amount:</div> <div>\$3,333.33</div> </div>

<p>Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="699 174 1007 208">Component Description:</td><td data-bbox="1139 174 1374 327">4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex</td></tr> <tr> <td data-bbox="699 338 807 371">Amount:</td><td data-bbox="1139 338 1257 371">\$3,000.00</td></tr> <tr> <td data-bbox="699 477 1007 510">Component Description:</td><td data-bbox="1139 477 1374 629">5. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex</td></tr> <tr> <td data-bbox="699 640 807 674">Amount:</td><td data-bbox="1139 640 1257 674">\$1,021.66</td></tr> <tr> <td data-bbox="699 779 1007 813">Component Description:</td><td data-bbox="1139 779 1374 846">Invoice to be resubmitted to LMS.</td></tr> <tr> <td data-bbox="699 857 807 891">Amount:</td><td data-bbox="1139 857 1185 891">N/A</td></tr> <tr> <td data-bbox="699 996 1007 1030">Component Description:</td><td data-bbox="1139 996 1374 1149">4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex</td></tr> <tr> <td data-bbox="699 1160 807 1193">Amount:</td><td data-bbox="1139 1160 1257 1193">\$6,000.00</td></tr> <tr> <td data-bbox="699 1299 1007 1332">Component Description:</td><td data-bbox="1139 1299 1374 1366">Invoice to be resubmitted to LMS.</td></tr> <tr> <td data-bbox="699 1377 807 1411">Amount:</td><td data-bbox="1139 1377 1185 1411">N/A</td></tr> </table>	Component Description:	4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex	Amount:	\$3,000.00	Component Description:	5. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex	Amount:	\$1,021.66	Component Description:	Invoice to be resubmitted to LMS.	Amount:	N/A	Component Description:	4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex	Amount:	\$6,000.00	Component Description:	Invoice to be resubmitted to LMS.	Amount:	N/A
Component Description:	4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex																				
Amount:	\$3,000.00																				
Component Description:	5. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex																				
Amount:	\$1,021.66																				
Component Description:	Invoice to be resubmitted to LMS.																				
Amount:	N/A																				
Component Description:	4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband Elbow Complex																				
Amount:	\$6,000.00																				
Component Description:	Invoice to be resubmitted to LMS.																				
Amount:	N/A																				
<p>Combiner output splitting /switching for dual feed lines, if applicable</p>	<p>Information not provided.</p>																				

New combiner, cost per channel (without antenna)	<table> <tr> <td data-bbox="699 174 1007 208">Component Description:</td><td data-bbox="1139 174 1374 286">1. WHRO-TV-210-Primary Antenna - New Combiner</td></tr> <tr> <td data-bbox="699 297 807 331">Amount:</td><td data-bbox="1139 297 1273 331">\$33,000.00</td></tr> <tr> <td data-bbox="699 432 1007 465">Component Description:</td><td data-bbox="1139 432 1374 544">1. WHRO-TV-210-Primary Antenna - New Combiner</td></tr> <tr> <td data-bbox="699 555 807 589">Amount:</td><td data-bbox="1139 555 1273 589">\$16,500.00</td></tr> <tr> <td data-bbox="699 689 1007 723">Component Description:</td><td data-bbox="1139 689 1374 801">3. WHRO-TV-210-Primary Antenna - New Combiner</td></tr> <tr> <td data-bbox="699 813 807 846">Amount:</td><td data-bbox="1139 813 1273 846">\$16,089.98</td></tr> <tr> <td data-bbox="699 947 1007 981">Component Description:</td><td data-bbox="1139 947 1374 1025">Invoice to be resubmitted to LMS.</td></tr> <tr> <td data-bbox="699 1037 807 1070">Amount:</td><td data-bbox="1139 1037 1185 1070">N/A</td></tr> <tr> <td data-bbox="699 1171 1007 1205">Component Description:</td><td data-bbox="1139 1171 1374 1249">Invoice to be resubmitted to LMS.</td></tr> <tr> <td data-bbox="699 1261 807 1294">Amount:</td><td data-bbox="1139 1261 1185 1294">N/A</td></tr> </table>	Component Description:	1. WHRO-TV-210-Primary Antenna - New Combiner	Amount:	\$33,000.00	Component Description:	1. WHRO-TV-210-Primary Antenna - New Combiner	Amount:	\$16,500.00	Component Description:	3. WHRO-TV-210-Primary Antenna - New Combiner	Amount:	\$16,089.98	Component Description:	Invoice to be resubmitted to LMS.	Amount:	N/A	Component Description:	Invoice to be resubmitted to LMS.	Amount:	N/A
Component Description:	1. WHRO-TV-210-Primary Antenna - New Combiner																				
Amount:	\$33,000.00																				
Component Description:	1. WHRO-TV-210-Primary Antenna - New Combiner																				
Amount:	\$16,500.00																				
Component Description:	3. WHRO-TV-210-Primary Antenna - New Combiner																				
Amount:	\$16,089.98																				
Component Description:	Invoice to be resubmitted to LMS.																				
Amount:	N/A																				
Component Description:	Invoice to be resubmitted to LMS.																				
Amount:	N/A																				
Sweep test of existing antenna	<table> <tr> <td data-bbox="699 1417 1007 1451">Component Description:</td><td data-bbox="1139 1417 1374 1529">4. WHRO-TV-210-Primary Antenna - Sweep Test</td></tr> <tr> <td data-bbox="699 1541 807 1574">Amount:</td><td data-bbox="1139 1541 1273 1574">\$5,000.00</td></tr> </table>	Component Description:	4. WHRO-TV-210-Primary Antenna - Sweep Test	Amount:	\$5,000.00																
Component Description:	4. WHRO-TV-210-Primary Antenna - Sweep Test																				
Amount:	\$5,000.00																				

UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized		
	Component Description:	CAPITAL CONTRIBUTION - NORFOLK TALL TOWER
	Amount:	\$49,537.50
	Component Description:	2. WHRO-TV-210-Primary Antenna - UHF High Power Top Mount, 4 Station Broadband, E-POL
	Amount:	\$31,441.83
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	CAPITAL CONTRIBUTION - NORFOLK TALL TOWER
	Amount:	\$99,075.00
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

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	\$499,801.62	\$203,401.62		\$176,107.42	
Elbows	<i>\$28,730.70</i>	\$28,730.70	Elbows to connect the vertical run to the interim antenna 3 Total @ 1930.00 each per Dielectric Quote	\$1,436.50	Includes additional items not in the original quote
Interim Transmission Line - Other Parts	<i>\$29,779.92</i>	\$29,779.92	Please see Estimated Cost Justification WHRO-TV-380-Interim Transmission Line - Other Parts v1	\$29,779.92	N/A
Transmission line interim	<i>\$0.00</i>	\$0.00	these costs are included in the Interim Transmission Line - Rigid Transmission Line budget category	\$0.00	N/A

Rigid Transmission Line - copper, 8 3/16" broadband	\$438,900.00	\$142,500.00	see WHRO American Tower quote Main Norfolk Tall Tower 10152, second section - Norfolk Tall Tower 10152	\$142,500.00	N/A
Interim Transmission Line - Nitrogen Generator	\$2,391.00	\$2,391.00	Please see American Tower WHRO Main Norfolk Tall Tower 10152 Customer Project Cost Estimation at 50% of the cost, per the vendor	\$2,391.00	N/A
Primary Transmission Line	\$1,162,975.12	\$360,118.12		\$360,118.12	
Primary Transmission Line - Other Parts	\$7,549.97	\$7,549.97	Please see Estimated Cost Justification WHRO-TV-310-Primary Transmission Line - Other Parts v1	\$7,549.97	N/A
Primary Transmission Line - Nitrogen Generator	\$2,391.00	\$2,391.00	Please see American Tower WHRO Main Norfolk Tall Tower 10152 Customer Project Cost Estimation at 50% of the cost, per the vendor	\$2,391.00	N/A

Combiner system	\$75,734.15	\$75,734.15	Please see WHRO 1931009 Order Confirmation - Primary Transmission Line - Combiner System	\$75,734.15	N/A
Rigid Transmission Line - copper, 8 3 /16" broadband	\$1,077,300.00	\$274,443.00	Please see Estimated Cost Justification WHRO-TV-310-Primary Transmission Line - 8 3_16_ Broadband Rigid Copper v0	\$274,443.00	N/A
Sub-total	\$1,662,776.74	\$563,519.74	N/A	\$536,225.54	N/A
Total for all systems	\$6,909,118.67	\$4,868,839.66	N/A	\$3,769,422.83	N/A

Components

Actual Information	
Description	File Name

Elbows	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	item 1 R0004542501 field Flange 5 at 287.30
	Amount:	\$1,436.50
Interim Transmission Line - Other Parts	Component Description:	WHRO-TV-380- Interim Transmission Line - Other Parts
	Amount:	\$11.62
	Component Description:	WHRO-TV-380- Interim Transmission Line - Other Parts
	Amount:	\$29.60
	Component Description:	RIGID TRANSMISSION LINE
	Amount:	\$29,738.70

Transmission line interim	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

Rigid Transmission Line - copper, 8 3/16" broadband	Component Description:	24. WHRO-TV-380-Interim Transmission Line - 8 3/16"" Broadband Rigid Copper
	Amount:	\$22,000.00
	Component Description:	24. WHRO-TV-380-Interim Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	\$44,000.00
	Component Description:	27. WHRO-TV-380-Interim Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	\$76,500.00
Interim Transmission Line - Nitrogen Generator	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
Interim Transmission Line - Nitrogen Generator	Component Description:	21. WHRO-TV-380-Interim Transmission Line - Nitrogen Generator
	Amount:	\$2,391.00

Primary Transmission Line - Other Parts	<div> Component Description: 4291-08 Nucalgon Nubrite </div> <div> Amount: \$11.62 </div>
	<div> Component Description: Misc. hardware </div> <div> Amount: \$228.75 </div>
	<div> Component Description: XFMR 6-50 /6-75 UHF 3 ST </div> <div> Amount: \$7,242.40 </div>
	<div> Component Description: O-RING BUNA </div> <div> Amount: \$67.20 </div>
Primary Transmission Line - Nitrogen Generator	<div> Component Description: 20. WHRO-TV-310- Primary Transmission Line - Nitrogen Generator </div> <div> Amount: \$2,391.00 </div>
Combiner system	<div> Component Description: RIGID TRANSMISSION LINE </div> <div> Amount: \$75,734.15 </div>

Rigid Transmission Line - copper, 8 3/16" broadband		
	Component Description:	5. WHRO-TV-310- Primary Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	\$110,335.50
	Component Description:	6. WHRO-TV-310- Primary Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	\$108,939.75
	Component Description:	5. WHRO-TV-310- Primary Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	\$55,167.75
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

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 GTOWER	\$686,725.83	\$509,591.83		\$494,616.81	
Tower Permit Drawing Package	<i>\$4,700.00</i>	\$4,700.00	Please see American Towers Customer Project Cost Estimation	\$4,700.00	N/A
Tower Construction Project Management	<i>\$27,500.00</i>	\$27,500.00	Please see Estimated Cost Justification WHRO-TV-410-Existing Primary Tower - Tower Construction Project Management v0	\$23,974.99	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$79,953.33	please see Estimated Cost Justification WHRO-TV-410-Existing Primary Tower - Minor Reinforcement Modifications v0	\$79,953.33	N/A

Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$20,000.00	Part of the total tower rebuild with 4 other broadcasters American Tower Document WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$14,600.00	this included structural and tower mapping for structural
Tower Helicopter Lift	\$55,525.83	\$55,525.83	Please see American Tower WHRO Main Norfolk Tall Tower 10152 Customer Project Cost Estimation	\$55,525.83	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$321,912.67	please see Estimated Cost Justification WHRO-TV-410-Existing Primary Tower - Tower Rigging v0	\$315,862.66	N/A
Sub-total	\$686,725.83	\$509,591.83	N/A	\$494,616.81	N/A
Total for all systems	\$6,909,118.67	\$4,868,839.66	N/A	\$3,769,422.83	N/A

Components

Actual Information	
Description	File Name

Tower Permit Drawing Package		
	Component Description:	9. WHRO-TV-410-Existing Primary Tower - Tower Permit Drawing Package
	Amount:	\$2,350.00
	Component Description:	11. WHRO-TV-410-Existing Primary Tower - Tower Permit Drawing Package
	Amount:	\$1,175.00
	Component Description:	9. WHRO-TV-410-Existing Primary Tower - Tower Permit Drawing Package
	Amount:	\$1,175.00

Tower Construction Project Management		
	Component Description:	11. WHRO-TV-410-Existing Primary Tower - Tower Construction Project Management
	Amount:	\$1,796.87
	Component Description:	12. WHRO-TV-410-Existing Primary Tower-Tower Construction Project Management
	Amount:	\$18,584.37
	Component Description:	11. WHRO-TV-410-Existing Primary Tower-Tower Construction Project Management
	Amount:	\$3,593.75

Minor tower reinforcement /modifications		
	Component Description:	7. WHRO-TV-410- Existing Primary Tower - Minor Reinforcement /Modifications
	Amount:	\$12,500.00
	Component Description:	7. WHRO-TV-410- Existing Primary Tower - Minor Reinforcement /Modifications
	Amount:	\$25,000.00
	Component Description:	8. WHRO-TV-410- Existing Primary Tower - Minor Reinforcement /Modifications
	Amount:	\$42,453.33
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

Structural engineering tower load study for a documented tower with candelabra

Component Description:	6. WHRO-TV-410-Existing Primary Tower - Tower Load Study for Documented Tower with Candelabra
Amount:	\$2,737.50

Component Description:	6. WHRO-TV-410-Existing Primary Tower - Tower Load Study for Documented Tower with Candelabra
Amount:	\$5,475.00

Component Description:	7. WHRO-TV-410-Existing Primary Tower - Tower Load Study for Documented Tower with Candelabra
Amount:	\$6,387.50

Component Description:	Invoice to be resubmitted to LMS.
Amount:	N/A

Component Description:	Invoice to be resubmitted to LMS.
Amount:	N/A

Tower Helicopter Lift	<table><tr><td data-bbox="703 174 1023 210">Component Description:</td><td data-bbox="1153 174 1385 327">10. WHRO-TV-410-Existing Primary Tower - Helicopter Lift</td></tr><tr><td data-bbox="703 338 820 374">Amount:</td><td data-bbox="1153 338 1286 374">\$55,525.83</td></tr></table>	Component Description:	10. WHRO-TV-410-Existing Primary Tower - Helicopter Lift	Amount:	\$55,525.83
Component Description:	10. WHRO-TV-410-Existing Primary Tower - Helicopter Lift				
Amount:	\$55,525.83				

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)		
	Component Description:	9. WHRO-TV-410-Existing Primary Tower - Tower Rigging, Complex Tower
	Amount:	\$194,412.54
	Component Description:	Cost for 4 liftin eyes and bolts (for shelters) left on site for future use as requested
	Amount:	\$200.00
	Component Description:	8. WHRO-TV-410-Existing Primary Tower - Tower Rigging, Complex Tower
	Amount:	\$80,833.42
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	8. WHRO-TV-410-Existing Primary Tower - Tower Rigging, Complex Tower
	Amount:	\$40,416.70

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	\$302,265.85	\$234,068.18		\$107,594.10	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$5,200.00	N/A
Ground and Building Drawing Package	<i>\$11,000.00</i>	\$11,000.00	Cost to Generate the Construction Drawing package for 4 Broadcast stations. Cover the interim and Main antenna packages	\$3,525.00	All of these were under Non Zoning Permit which have been Zeroed out but I can remove them.
Site Coordination Meeting	<i>\$2,895.85</i>	\$2,895.85	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$2,895.85	N/A

RF System Test	\$5,000.00	\$5,000.00	Perform systems checks on Combiner network due to the volume of broadcaster using the antenna ATC Doc WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$5,000.00	N/A
Migratory Bird Assessment	\$500.00	\$500.00	estimated costs for being in a bird migration mitigation ATC DocWHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$437.49	N/A
RF Exposure Measurements	\$21,050.00	\$6,500.00	Shared Expense	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	\$700.00	To reimburse American Tower if needed	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$800.00	Shared cost of the Broadcasters being repacked	N/A	N/A

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$3,500.00	Per ATC Doc WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$2,000.00	Per ATC Doc WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	\$3,869.48	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$144.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$2,850.00	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$2,025.00	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$3,636.33	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$3,636.33	N/A
Project management of the transition	\$121,660.00	\$85,895.00	Shared Expense via American Tower Doc WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates. Also see Widelity Strategic Support Quote.	\$77,069.95	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,541.00	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$3,541.00	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$302,265.85	\$234,068.18	N/A	\$107,594.10	N/A
Total for all systems	\$6,909,118.67	\$4,868,839.66	N/A	\$3,769,422.83	N/A

Components

Actual Information Description	File Name
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Perform engineering study
for new channel assignment
and antenna development

Component Description:

14. WHRO-TV-
530-RF Eng -
Engineering Study
for New Channel
Assignment

Amount:

\$2,500.00

Component Description:

develop final
operating
constants,
preparation of
engineering
portions of FCC
application for
license to cover.

Amount:

\$200.00

Component Description:

Invoice to be
resubmitted to
LMS.

Amount:

N/A

Component Description:

15. WHRO-TV-
530-RF Eng -
Engineering Study
for New Channel
Assignment

Amount:

\$1,250.00

Component Description:

Invoice to be
resubmitted to
LMS.

Amount:

N/A

Component Description:

14. WHRO-TV-
530-RF Eng -
Engineering Study
for New Channel
Assignment

Amount:

\$1,250.00

Ground and Building
Drawing Package

Component Description: 10. WHRO-TV-
590-Ground and
Building Drawing
Package
Amount: \$2,350.00

Component Description: Invoice to be
resubmitted to
LMS.
Amount: N/A

Component Description: 10. WHRO-TV-
590-Ground and
Building Drawing
Package
Amount: \$1,175.00

Component Description: Invoice to be
resubmitted to
LMS.
Amount: N/A

Component Description: Invoice to be
resubmitted to
LMS.
Amount: N/A

Component Description: Invoice to be
resubmitted to
LMS.
Amount: N/A

Site Coordination Meeting		
	Component Description:	15. WHRO-TV-590-Site Coordination Meeting
	Amount:	\$625.00
	Component Description:	15. WHRO-TV-590-Site Coordination Meeting
	Amount:	\$1,250.00
	Component Description:	16. WHRO-TV-590-Site Coordination Meeting
	Amount:	\$1,020.85
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

RF System Test		
	Component Description:	17. WHRO-TV-580-Field Engineering Service - RF System Test
	Amount:	\$1,250.00
	Component Description:	17. WHRO-TV-580-Field Engineering Service - RF System Test
	Amount:	\$2,500.00
	Component Description:	17. WHRO-TV-580-Field Engineering Service - RF System Test
	Amount:	\$1,250.00
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

Migratory Bird Assessment	Component Description:	16. WHRO-TV-590-Migratory Bird Assessment
	Amount:	\$145.83
	Component Description:	16. WHRO-TV-590-Migratory Bird Assessment
	Amount:	\$291.66
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
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.	
NEPA Section 106 environmental review, if needed	Information not provided.	

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

Component Description:	Services Rendered
Amount:	\$202.00

Component Description:	Services Rendered
Amount:	\$272.00

Component Description:	Services Rendered
Amount:	\$252.50

Component Description:	Services Rendered
Amount:	\$85.50

Component Description:	email to repacked tv stations
Amount:	\$202.00

Component Description:	WHRO-TV-550- Attorney - Negotiate Lease and Other Matters
Amount:	\$221.50

Component Description:	Services Rendered
Amount:	\$1,063.98

Component Description:	Email reminder regarding WHRO repack quarterly progress reports required by FCC
Amount:	\$202.00

Component Description:	Services Rendered
Amount:	\$353.50

	Component Description: Amount:	Services Rendered \$101.00
	Component Description: Amount:	WHRO-TV-550- Attorney - Negotiate Lease and Other Matters \$315.00
	Component Description: Amount:	Services Rendered \$35.00
	Component Description: Amount:	Email Reminder of WHRO quarterly repack transition \$50.50
	Component Description: Amount:	Services Rendered \$513.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Services Rendered \$144.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Prepare request for Special Temporary Authorization	<div> Component Description: Develop technical parameters for side-mount interim antenna </div> <div> Amount: \$850.00 </div>
	<div> Component Description: Develop parameters for final repack CH-31 configuration </div> <div> Amount: \$1,175.00 </div>
	<div> Component Description: Develop technical parameters for auxiliary antenna on repack </div> <div> Amount: \$825.00 </div>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<div> Component Description: Confirm and revise final operating constants </div> <div> Amount: \$250.00 </div>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Address transition timing and coordination issues w/ other stations and wireless	Component Description:	Services Rendered
	Amount:	\$303.00
	Component Description:	14. WHRO-TV-590-Transition Timing and Coordination Issues
	Amount:	\$1,458.33
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
Project management of the transition	Component Description:	13. WHRO-TV-590-Transition Timing and Coordination Issues
	Amount:	\$625.00
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	13. WHRO-TV-590-Transition Timing and Coordination Issues
	Amount:	\$1,250.00
Project management of the transition	Component Description:	12. WHRO-TV-510-Project Management
	Amount:	\$2,370.00

Component Description:	Project Management
Amount:	\$1,511.25

Component Description:	Project Management
Amount:	\$9,261.25

Component Description:	Project Management
Amount:	\$4,376.20

Component Description:	Project Management
Amount:	\$19,026.25

Component Description:	Project Management
Amount:	\$3,118.05

Component Description:	Project Management
Amount:	\$10,582.50

Component Description:	Project Management
Amount:	\$38.75

Component Description:	Project Management
Amount:	\$2,986.05

Component Description:	Invoice to be resubmitted to LMS.
Amount:	N/A

Component Description:	Project Management
Amount:	\$778.75

Component Description:	Invoice to be resubmitted to LMS.
Amount:	N/A

Component Description:	13. WHRO-TV-510-Project Management
Amount:	\$2,370.00

Component Description:	Project Management
Amount:	\$3,635.35

Component Description:	Invoice to be resubmitted to LMS.
Amount:	N/A

Component Description:	Project Management
Amount:	\$3,511.40

Component Description:	12. WHRO-TV-510-Project Management
Amount:	\$4,740.00

Component Description:	Project Management
Amount:	\$740.00

	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Project Management
	Amount:	\$6,899.15
	Component Description:	Project Management
	Amount:	\$1,125.00
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description:	Services Rendered
	Amount:	\$412.00
	Component Description:	WHRO-TV-550-Attorney - Special Temporary Authorization
	Amount:	\$630.00
	Component Description:	WHRO-TV-550-Attorney - Special Temporary Authorization
	Amount:	\$109.00
	Component Description:	WHRO-TV-550-Attorney - Special Temporary Authorization
	Amount:	\$560.00
	Component Description:	Services Rendered
	Amount:	\$1,830.00

Prepare and or review reimbursement form	Information not provided.
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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	\$210,967.58	\$210,402.58		\$60,823.97	
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$6,603.42</i>	\$6,603.42	Please see Estimated Cost Justification WHRO-TV-610-Disposal Costs v0	\$6,603.42	N/A
Equipment Rental	<i>\$1,071.89</i>	\$1,071.89	Please see WHRO-TV Equipment Rental Budget Revision Justification Letter.pdf	\$1,071.89	N/A
Helicopter Landing Site Prep	<i>\$1,208.18</i>	\$1,208.18	Please see WHRO-TV Helicopter Landing Site Prep Budget Revision Justification Letter.pdf	\$1,208.17	N/A
VSWR Sweep Test	<i>\$18,442.94</i>	\$18,442.94	Please see WHRO-TV VSWR Sweep Test Budget Revision Justification Letter.pdf	\$0.00	N/A

Special Insurance Rider	\$2,500.00	\$2,500.00	Special insurance Rider to cover the costs of the homes that are within 2000 ft of the tower. ATC owes the tower WHRO Owns all the Land. ATC Lease the Base, Anchors and Building land from WHRO	N/A	N/A
Site Security	\$16,200.00	\$16,200.00	Very complicated site installation. lots o expensive materials lying around very easy to steal. The compound is gated but access under ditch area is possible	N/A	N/A
Public Hearing	\$500.00	\$500.00	Costs associated with Public hearing materials sent to surrounding homes, newspapers ETC.	N/A	N/A

Grading Road	\$4,500.00	\$4,500.00	Regrading drive access to the site for at least 1 year	N/A	N/A
Comark System Design and Site Survey	\$15,300.00	\$15,300.00	This is to visit the tower site location and design the transmitter installation locations and RF plumbing of the system.	\$15,300.00	See P3921E WHRO Site design and Survey quote.
ATC One Time Tower Rental	\$57,600.00	\$57,600.00	Rental Fee associated with repacking for the Interim antenna	N/A	N/A
MVPD Notification of Channel Change	\$500.00	\$500.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$15,000.00	N/A	N/A	N/A
Equipment Storage	\$24,000.00	\$24,000.00	N/A	\$2,429.34	N/A

Equipment Delivery and Handling Charges	\$26,711.15	\$26,711.15	Please see Estimated Cost Justification WHRO-TV-610-Equipment Delivery and Handling v1	\$26,711.15	N/A
BLM or NFS Coordination	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Non-zoning permits	\$5,000.00	\$5,000.00	N/A	\$750.00	N/A
Local Zoning	\$1,750.00	\$1,750.00	N/A	\$0.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$6,750.00	N/A
Sub-total	\$210,967.58	\$210,402.58	N/A	\$60,823.97	N/A
Total for all systems	\$6,909,118.67	\$4,868,839.66	N/A	\$3,769,422.83	N/A

Components

Actual Information
Description

File Name

Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:		Mixed Material Recoverables
	Amount:		Hauling Services
			\$290.42
	Component Description:		Labor, equipment, and disposal
	Amount:		\$6,313.00
Equipment Rental	Component Description:		TS420 STIHL 14"
	Amount:		CUTQUICK
			\$1,071.89
Helicopter Landing Site Prep	Component Description:		Magnesium Chloride
	Amount:		\$1,208.17
VSWR Sweep Test	Component Description:		Broadband AMPL / SMA
	Amount:		\$2,522.92
Special Insurance Rider	Information not provided.		
Site Security	Information not provided.		
Public Hearing	Information not provided.		
Grading Road	Information not provided.		

Comark System Design and Site Survey	Component Description:		Invoice to be resubmitted to LMS.
	Amount:		N/A
	Component Description:		System Design Service / Site Survey
	Amount:		\$15,300.00
ATC One Time Tower Rental	Information not provided.		
MVPD Notification of Channel Change	Information not provided.		
Develop and air announcement of upcoming channel change	Information not provided.		
Equipment Storage	Component Description:		19. WHRO-TV-610-Equipment Storage
	Amount:		\$2,429.34
Equipment Delivery and Handling Charges	Component Description:		Forklift Variable Reach
	Amount:		\$2,586.86
	Component Description:		Forklift Variable Reach
	Amount:		\$2,738.50
	Component Description:		Freight and Shipping
	Amount:		\$2,835.00

Component Description:	Forklift Variable Reach
Amount:	\$2,573.82

Component Description:	Forklift Variable Reach
Amount:	\$2,586.86

Component Description:	Forklift Variable Reach
Amount:	\$2,586.86

Component Description:	Dielectric Freight Charges for invoice 637004. Cover letter for Dielectric Shipping is located in the Attachments
Amount:	\$41.86

Component Description:	Forklift Variable Reach
Amount:	\$2,586.86

Component Description:	Invoice to be resubmitted to LMS.
Amount:	N/A

Component Description:	FREIGHT AND SHIPPING
Amount:	\$1,991.25

Component Description:	ATC MS1 1-A-4 at 25% of total
Amount:	N/A

	Component Description:	FREIGHT AND SHIPPING
	Amount:	\$304.51
	Component Description:	19. WHRO-TV-610-Equipment Delivery and Handling
	Amount:	\$1,666.66
	Component Description:	FREIGHT AND SHIPPING
	Amount:	\$84.83
	Component Description:	19. WHRO-TV-610-Equipment Delivery and Handling
	Amount:	\$3,333.33
	Component Description:	Forklift Variable Reach
	Amount:	\$793.95
BLM or NFS Coordination	Information not provided.	
Non-zoning permits	Component Description:	18. WHRO-TV-610-Non-Zoning Permits
	Amount:	\$375.00
	Component Description:	ATC MS2 3-D-1 Ground and building Permit additional 50% payment 25% remaining
	Amount:	N/A

Component Description:	18. WHRO-TV- 610-Non-Zoning Permits
Amount:	\$187.50

Component Description:	18. WHRO-TV- 610-Non-Zoning Permits
Amount:	\$187.50

Component Description:	ATC MS2 item 3-D- 1 Tower Permit additional 50% payment 25% remaining
Amount:	N/A

Component Description:	3-D-1 Ground and building permit package MS1 at 25% of total
Amount:	N/A

Component Description:	3-D-1 Tower Permits drawing package
Amount:	N/A

Local Zoning	<div> <div> Component Description: Amount: </div> <div> ATC MS2 item 1-A-3 permit costs Additional 50% payment 25% remaining N/A </div> </div> <div> <div> Component Description: Amount: </div> <div> Invoice to be resubmitted to LMS. N/A </div> </div>
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	<div> <div> Component Description: Amount: </div> <div> Medical notification Mailing \$3,750.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Medical Notification \$3,000.00 </div> </div>

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$6,909,118.67	\$4,868,839.66
			\$3,769,422.83

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.	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

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

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Chris Gunnar Gunnufsen <i>Vice President Technology</i> 09/07/2021</p>

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 IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> 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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Chris Gunnar Gunnufsen <i>Vice President Technology</i></p> <p>09/07/2021</p>

Certification	Section	Question	Response
	Submission of Final Allocation or Accounting Information Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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 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 above-named applicant for the Authorization(s) specified above.

**Chris
Gunnar
Gunnufsen**
*Vice
President
Technology*

09/07/2021

Attachments