

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

			1		
Facility	25932	Service: DTV	Call	WHRO-TV	Channel: 31 (UHF)
ID:			Sign:		
File	000002	7736			
Number:					
FRN: 00	02062511	Date	02/11		
		Submitted:	/2021		

Applicant Name, Type, and Contact Information

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

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email
	The Preparer is same as the reimbursement contact.			

Broadcaster	Question
Information	
and	
Transition	
Plan	

Response

Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	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	Existing Transmitter Infor	mation			
Transmitter	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	DCX Millenium		
		Year	2001		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	60 kW		

Existing Transmitter Information

Primary	New Transmitter Costs		
Transmitter	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	Other Transmitter Costs			
Transmitter	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	
		Туре	Cooling Only	
		Size	15 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	4500.0 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
TransmitterOther Transmitter Cost Not ListedInformation not provided.

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Informa	tion				
Antenna	Section	Question	Response			
	Existing Antenna Description	Type of change	Lease New			
	Description	Antenna Use	Primary (Main)			
		Description of Use	N/A			
		Ownership	Lease New Primary (Main)			
		Owner				
		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	Class	Full Power			
	Manufacturer and Type	Mounting	Top Mount			
		Antenna position in stack	Bottom			
		Polarization	Horizontal			
		Туре				
		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	Class	 (Main) N/A Lease New Yes Leased American Tower LLC Yes No 	
	Manufacturer and Types	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Elliptical	
		Туре		
		Number of Stations Supported	 Top Mount Not in Stack Elliptical Broadband Panel 4 70 470.00 MHz 700.00 MHz 	
		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 Section Question Response **Combiner for Shared** Do you need a Combiner for a Shared Yes Antenna Antenna? Type New Number of channels supported 4 **RF** channel Frequencies of channels supported Frequency N/A Do you need a combiner output splitter Yes /switcher for dual feed lines? **Elbow Complex** Do you require the separate purchase of Yes the Elbow Complex? 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 No 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?

Other Antenna Costs

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	Class	Full Power	
	Manufacturer and Type	Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Elliptical	
		Туре	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	SBBEP- 24C160	

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 O	ther Antenna Costs
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Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
		Туре	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?	В
		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	

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary	Existing Transmission Line						
Transmissio	n Line Section	Question	Response				
	Existing Transmission	Type of change	Lease New				
	Line Description	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	Manufacturer					
	Line Manufacturer and Type	Туре	Rigid				
		Diameter	6 1/8 inches				
		Other Diameter	N/A				
		Segment Length	19 1/2 inches				
		Other Segment Length	N/A				
		Number of parallel runs	1				
		Length	1307 feet per run				

Primary	New Transmission Line					
Transmissio	n 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			
		Туре	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	Other Transmission Line Expenses Not Listed				
Transmissio	n Line	Description			
	Combiner system	Combiner system for shared Broadband antenna			

Interim	New Transmission Line					
Transmissio	n Line Section	Question	Response			
	New Transmission Line	Use	Interim			
	Costs	Description of Use	N/A			
		Change Type	Purchase New			
		Туре	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 Other Transmission Line Expenses Not Listed

Transmissio	nLine	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.
	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.

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

Existing Tower

Primary	Existing Tower						
Tower	Section	Question	Response				
	Existing Tower	Type of change	Modify Existing				
	Description	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	Do you have a tower registration number?	Yes				
	Structure Registration	ASR Number	1057874				
	Coordinates (NAD83 (North American Datum	Latitude (NAD83)	36° 48' 31.8" N-				
	of 1983))	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				

Struct	ture Type	GTOWER - Guyed Structure Used for Communication Purposes
Towe	r 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
25932	WHRO-TV	DTV
67077	WPXV-TV	DTV
9762	WGNT	DTV
82574	WTPC-TV	DTV
40759	WTVZ-TV	DTV
47401	WTKR	DTV
25933	WHRV	FM
25940	WHRO-FM	FM

Primary Tower Modification Costs

Tower

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	

Tower Rigging Costs Primary

Tower

-	-	 	 33	,	5 -	

Response Section Question **Tower Rigging Costs** Complex Tower Candelabra **Helicopter Services** Are helicopter services required? No Required

Primary Tower

Other Tower Expenses Not Listed

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

Outside	Section	Question	Response
Professional	Services Costs 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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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 Other Professional Services Expenses Not Listed Professional Services Costs

Services Costs	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	Section	Question	Response
Expenses	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 Not Listed

Other	Other Expenses Not Listed			
Expenses	Name	Description		
	Comark System Design and Site Survey	Cost associated with Hitachi Comark to do a site visit and design for the Transmitter installation		
	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		
	Grading Road	The Gravel Road Will be destroyed during the repacking andwill 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		

Transmitters

Cost Information

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	\$2,212,700.00	\$2,638,621.00		\$1,860,755.50	
Other Building Addition Size: 4500.0	\$52,000.00	\$52,000.00	Walls have to be removed to install the new transmitter. This includes removing a mezzanine to mount and install the magic Tee and Mask filter.	\$0.00	N/A

15 Ton	\$55,800.00	\$53,000.00	The new	N/A	N/A
system			transmitter,		
			CIF and		
			Magic Tee		
			will need to		
			be located		
			in a room		
			that does		
			not have		
			AC at this		
			time. A new		
			AC will be		
			needed to		
			keep the		
			CIF, magic		
			tee,		
			Combiner		
			and		
			temperature		
			from		
			Overheating		
			and drifting		
			in power.		
4" Rigid	\$30,300.00	\$28,800.00	After Digital	\$0.00	N/A
Conduit and			conversion		
Wiring			in 2009 all		
(Cost per			conduits		
foot)			and switch		
			gear was		
			removed		
			that		
			connected		
			to the		
			analog		
			transmitter.		

Transformer 3 phase /480v - 500 KVA Switchgear - industrial 800 amp	\$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.
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	\$1,860,755.50	N/A
Other Electrical Service: Installation of Transmitter Electrical systems	\$200,000.00	\$200,000.00	N/A	\$0.00	N/A

Total for all	\$6,635,411.53	\$4,403,186.86	N/A	\$2,663,998.16	N/A
systems					

Components

Actual Information Description	File Name	
Other Building Addition Size: 4500.0	Information not provided.	
15 Ton system	Information not provided.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 500 KVA	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
Switchgear - industrial 800 amp	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description:	Parallax 58kW Liquid Cooled
	Amount:	Digital Transmitter \$881,410.50
	Component Description:	Parallax 58kW Liquid Cooled Digital Transmitter
	Amount:	\$979,345.00
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
Other Electrical Service: Installation of Transmitter Electrical systems	Information not provided.	

Antennas

Cost Information

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 SBBEP- 24C160	\$374,530.00	\$236,766.33		\$130,449.99	
New combiner, cost per channel (without antenna)	\$84,200.00	\$48,333.00	Shared Costs with other Broadcasters being repacked see American Tower Project Costs Estimate. Microsoft Excel Document WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$33,000.00	Combiner 25 % payment

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, directional,, elliptically or circularly polarized	\$60,000.00	\$60,000.00	the original number of 235,000 has been reduced to 60,000 due to the number of Broadcasters using the Broadband antenna. See American Tower Project Costs Est. Microsoft Excel Document: WHRO IM Norfolk Tall Tower 10152 Repack Cost	\$45,000.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$4,000.00	Please see WHRO American Towers Customer Project Cost Estimation	\$3,000.00	N/A
Interim Tower Rental	\$57,600.00	\$57,600.00	Interim antenna Tower rental during repack	\$43,200.00	N/A

Primary Antenna PEP70E-05- 2-T	\$1,339,213.33	\$421,883.33		\$217,112.49	
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
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
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	

Combiner Installation	\$13,333.33	\$13,333.33	Per station combiner installation costs	\$9,999.99	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$66,000.00	N/A	\$49,500.00	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	\$148,612.50	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$12,000.00	N/A	\$9,000.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$126,000.00	N/A	\$0.00	N/A
Sub-total	\$1,713,743.33	\$658,649.66	N/A	\$347,562.48	N/A
Total for all	\$6,635,411.53	\$4,403,186.86	N/A	\$2,663,998.16	N/A

Actual Information Description	File Name	
New combiner, cost per channel (without antenna)	Component Description: Amount:	21. WHRO-TV-280- Interim Antenna - New Combiner \$22,000.00
	Component Description: Amount:	21. WHRO-TV-280- Interim Antenna - New Combiner \$11,000.00
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
	Component Description: Amount:	Invoice to be resubmitted to LMS. 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:	20. WHRO-TV-280- Interim Antenna- UHF High Power Side Mount,
	Amount:	Directional, E-POL \$30,000.00
	Component Description:	Invoice to be
	Amount:	resubmitted to LMS. N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	3. WHRO-TV-280- Interim Antenna - 7 3/16" Broadband
	Amount:	Elbow Complex \$2,000.00
	Component Description:	3. WHRO-TV-280- Interim Antenna - 7 3/16" Broadband
	Amount:	Elbow Complex \$1,000.00

Interim Tower Rental		
	Component Description:	23. WHRO-TV-28
		Interim Antenna -
		Interim Tower
		Rental
	Amount:	\$14,400.00
	Component Description:	23. WHRO-TV-280
		Interim Antenna -
		Interim Tower
		Rental
	Amount:	\$28,800.00
	Component Description:	Invoice to be
		resubmitted to LM
	Amount:	N/A
	Component Description:	Invoice to be
		resubmitted to LM
	Amount:	N/A
Side mount brackets for high power antennas (if not included in antenna	Information not provided.	
base cost) Combiner output splitting	Information not provided.	
/switching for dual feed lines, if applicable		

RO-TV-280-
Antenna - Test
66
00
RO-TV-280-
Antenna -
Test
33
to be
itted to LMS.
to be
itted to LMS.

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

New combiner, cost per		
channel (without antenna)	Component Description:	1. WHRO-TV-210-
		Primary Antenna -
		New Combiner
	Amount:	\$16,500.00
	Component Description:	1. WHRO-TV-210-
		Primary Antenna -
		New Combiner
	Amount:	\$33,000.00
	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 Top Mount (200-1000 kW), Four Station broadband	Component Description:	CAPITAL
panel antenna, elliptically		CONTRIBUTION -
or circularly polarized		NORFOLK TALL TOWER
	Amount:	\$49,537.50
	Anount	ψ-3,337.30
	Component Description:	CAPITAL
		CONTRIBUTION -
		NORFOLK TALL
		TOWER
	Amount:	\$99,075.00
	Component Description:	Invoice to be
		resubmitted to LMS
	Amount:	N/A
	Component Description:	Invoice to be
		resubmitted to LMS
	Amount:	N/A

Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	Component Description:	4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband	
	Amount:	Elbow Complex \$3,000.00	
	Component Description:	4. WHRO-TV-210- Primary Antenna - 8 3/16" Broadband	
	Amount:	Elbow Complex \$6,000.00	
	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	Information not provided.		
Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.		

Transmission Line

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$503,230.70	\$157,097.70		\$67,436.50	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$438,900.00	\$92,767.00	The remaining costs are covered by other broadcasters collocated on the same tower that will be repacked Per American Tower Document WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$66,000.00	N/A
Elbows	\$28,730.70	\$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

Transmission line interim	\$35,600.00	\$35,600.00	200 Ft of 6 1 /8" line to connect to the interim antenna per American Tower Document WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$0.00	N/A
Primary Transmission Line	\$1,121,300.00	\$264,671.00		\$165,503.25	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$1,077,300.00	\$220,671.00	N/A	\$165,503.25	N/A
Combiner system	\$44,000.00	\$44,000.00	N/A	\$0.00	N/A
Sub-total	\$1,624,530.70	\$421,768.70	N/A	\$232,939.75	N/A
Total for all systems	\$6,635,411.53	\$4,403,186.86	N/A	\$2,663,998.16	N/A

Actual Information	
Description	File Name

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:	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

Elbows		
	Component Description:	item 1 R0004542501 field
		Flange 5 at 287.30
	Amount:	\$1,436.50
	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
ransmission line interim		
	Component Description:	Invoice to be
		resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be
		resubmitted to
	A	LMS.
	Amount:	N/A

Rigid Transmission Line - copper, 8 3/16" broadband	Component Description: Amount:	5. WHRO-TV-310- Primary Transmission Line - 8 3/16" Broadband Rigid Copper \$110,335.50
	Component Description: Amount:	5. WHRO-TV-310- Primary Transmission Line - 8 3/16" Broadband Rigid Copper \$55,167.75
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
Combiner system	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatior
Primary Tower GTOWER	\$610,887.50	\$281,887.50		\$175,878.24	
Tower Construction Project Management	\$7,187.50	\$7,187.50	Please see American Towers Customer Project Cost Estimation	\$5,390.62	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$200,000.00	Shared cost of the broadcasters that are going to be repacked per American Tower Document WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$121,250.12	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	\$8,212.50	this included structural and tower mapping for structural

Tower Permit Drawing Package	\$4,700.00	\$4,700.00	Please see American Towers Customer Project Cost Estimation	\$3,525.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$50,000.00	Shared cost with Other Broadcasters that are being repacked per ATC document WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$37,500.00	N/A
Sub-total	\$610,887.50	\$281,887.50	N/A	\$175,878.24	N/A
Total for all systems	\$6,635,411.53	\$4,403,186.86	N/A	\$2,663,998.16	N/A

Actual Information Description	File Name	
Tower Construction Project Management	Component Description:	11. WHRO-TV-410- Existing Primary Tower-Tower Construction Project Management
	Amount:	\$3,593.75
	Component Description:	11. WHRO-TV-410- Existing Primary Tower - Tower Construction Project Management \$1,796.87

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description:	8. WHRO-TV-410- Existing Primary Tower - Tower Rigging, Complex
	Amounti	Tower
	Amount:	\$40,416.70
	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

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 \$5,475.00
	Component Description:	6. WHRO-TV-410- Existing Primary Tower - Tower Load Study for Documented Tower with Candelabra \$2,737.50
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A

Tower Permit Drawing Package	Component Description:	9. 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:	\$2,350.00
Minor tower reinforcement		
/modifications	Component Description:	7. WHRO-TV-410-
		Existing Primary Tower - Minor
		Reinforcement
		/Modifications
	Amount:	\$25,000.00
	Component Description:	7. WHRO-TV-410-
	•••••••••••••••••••••••••••••••	Existing Primary
		Tower - Minor
		Reinforcement
	A	/Modifications
	Amount:	\$12,500.00
	Component Description:	Invoice to be
		resubmitted to
	Amount	LMS.
	Amount:	N/A
	Component Description:	Invoice to be
		resubmitted to
		LMS.
	Amount:	N/A

Outside Professional Services

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Outside Professional Services	\$300,620.00	\$229,895.00		\$25,957.84	
Ground and Building Drawing Package	\$11,000.00	\$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 unde Non Zonin Permit whic have beer Zeroed ou but I can't remove them.
Site Coordination Meeting	\$1,250.00	\$1,250.00	Complex tower rebuild multiple Broadcaster involvement ATC Doc WHRO IM Norfolk Tall Tower 10152 Repack Cost Estimates	\$1,875.00	Complex tower with many broadcaste to coordinate WTKR, WGNT, WTVZ-TV WHRO-T\

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	\$3,750.00	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 - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	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

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$1,875.00	N//
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,750.00	N/
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/J
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N//

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.	\$10,745.35	N/A
Sub-total	\$300,620.00	\$229,895.00	N/A	\$25,957.84	N/A
Total for all systems	\$6,635,411.53	\$4,403,186.86	N/A	\$2,663,998.16	N/A

Actual Information	
Description	File Name

Ground and Building Drawing Package	Component Description:	10. WHRO-TV- 590-Ground and
	Amount:	Building Drawing Package \$1,175.00
	Component Description:	10. WHRO-TV- 590-Ground and
	Amount:	Building Drawing Package \$2,350.00
	Component Description:	Invoice to be resubmitted to
	Amount:	LMS. N/A
	Component Description:	Invoice to be resubmitted to
	Amount:	LMS. 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: Amount:	15. WHRO-TV- 590-Site Coordination Meeting \$1,250.00
	Component Description:	15. WHRO-TV-
		590-Site Coordination Meeting
	Amount:	\$625.00
	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: Amount:	17. WHRO-TV- 580-Field Engineering Service - RF System Test \$2,500.00
	Component Description: Amount:	17. WHRO-TV- 580-Field Engineering Service - RF System Test \$1,250.00
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A

Migratory Bird Assassment		
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	Information not provided.	

Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Component Description:	13. WHRO-TV- 590-Transition Timing and Coordination Issues
	Amount:	\$625.00
	Component Description:	13. WHRO-TV- 590-Transition Timing and Coordination Issues
	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
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

for new channel assignment and antenna development	Component Description:	14. WHRO-TV- 530-RF Eng - Engineering Study
	Amount:	for New Channel Assignment \$2,500.00
	Component Description:	14. 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:	Invoice to be resubmitted to LMS.
	Amount:	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare engineering section of 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.	

Project management of the		
transition	Component Description:	12. WHRO-T
		510-Project
		Management
	Amount:	\$2,370.00
		<i>q</i> _,010.000
	Component Description:	12. WHRO-T
	••••••••••••••••••	510-Project
		Management
	Amount:	\$4,740.00
	Anount.	ψτ,7τ0.00
	Component Description:	Project
		Management
	Amount:	\$3,635.35
	Component Description:	Invoice to be
		resubmitted t
		LMS.
	Amount:	N/A
	Component Description:	Invoice to be
		resubmitted t
		LMS.
	Amount:	N/A
	Component Description:	Invoice to be
	Component Description.	resubmitted t
		LMS.
	A manual tr	
	Amount:	N/A
	Component Description:	Invoice to be
	component Description:	
		resubmitted t
	A	LMS.
	Amount:	N/A

Other Expenses

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$172,930.00	\$172,365.00		\$20,904.35	
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

		0 40,000,000		N1/A	
Site Security	\$16,200.00	\$16,200.00	Very complicated	N/A	N/A
			site		
			installation.		
			lots o		
			expensive		
			materials		
			lying		
			around very		
			easy to		
			steal. The		
			compound		
			is gated but		
			access		
			under ditch		
			area is		
			possible		
			pocoloio		
Public Hearing	\$500.00	\$500.00	Costs	N/A	N/A
			associated		
			with Public		
			hearing		
			materials		
			sent to		
			surrounding		
			homes,		
			newspapers		
			ETC.		
Grading Road	\$4,500.00	\$4,500.00	Regrading	N/A	N/A
	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	<i>•</i> • • • • • • • • • • • • • • • • • •	drive		
			access to		
			the site for		
			at least 1		
			year		
ATC One	\$57,600.00	\$57,600.00	Rental Fee	N/A	N/A
Time Tower			associated		
Rental			with		
			repacking		
			for the		
			Interim		
			antenna		

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.
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	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$3,500.00	\$3,500.00	N/A	N/A	N/A
BLM or NFS Coordination	\$2,000.00	\$2,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$500.00	\$500.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$12,500.00	\$12,500.00	N/A	\$5,041.85	N/A
DTV Medical Facility	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Notification					

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Non-zoning permits	\$5,000.00	\$5,000.00	N/A	\$562.50	Includes multiple broadcasters coordination
Sub-total	\$172,930.00	\$172,365.00	N/A	\$20,904.35	N/A
Total for all systems	\$6,635,411.53	\$4,403,186.86	N/A	\$2,663,998.16	N/A

Actual Information Description	File Name		
Special Insurance Rider	Information not provided.		
Site Security	Information not provided.		
Public Hearing	Information not provided.		
Grading Road	Information not provided.		
ATC One Time Tower Rental	Information not provided.		
Comark System Design and Site Survey	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A	
	Component Description:	System Design Service / Site Survey	
	Amount:	\$15,300.00	

Information not provided.
Information not provided.

	Amount:	at 25% of total N/A
	Component Description:	ATC MS1 1-A-4
	Component Description: Amount:	Invoice to be resubmitted to LMS. N/A
	Component Description:	Dielectric Freight Charges for invoice 637004. Cover letter for Dielectric Shipping is located in the Attachments \$41.86
	Component Description: Amount:	19. WHRO-TV- 610-Equipment Delivery and Handling \$3,333.33
	Amount:	Handling \$1,666.66
Equipment Delivery and Handling Charges	Component Description:	19. WHRO-TV- 610-Equipment Delivery and

Local Zoning		
	Component Description:	Invoice to be resubmitted to LMS.
	Amount:	N/A
	Component Description:	ATC MS2 item 1- A-3 permit costs Additional 50% payment 25% remaining
	Amount:	N/A
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	

permits		
	Component Description:	18. WHRO-TV- 610-Non-Zoning
		Permits
	Amount:	\$375.00
	Component Description:	18. WHRO-TV-
		610-Non-Zoning
	Amount:	Permits \$187.50
	Component Description:	ATC MS2 item 3-
	Component Description.	D-1 Tower Permit
		additional 50%
		payment 25% remaining
	Amount:	N/A
	Component Description:	3-D-1 Tower
		Permits drawing
	Amount:	package N/A
	Component Description:	3-D-1 Ground and
	component Description.	building permit
		package MS1 at
	Amount:	25% of total N/A
	Component Description:	ATC MS2 3-D-1
	component Description.	Ground and
		building Permit
		additional 50% payment 25%
		remaining
	Amount:	N/A

Non-zoning

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$6,635,411.53	\$4,403,186.86	\$2,663,998.16

Reimbursem	entestiatus	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	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.	
		 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. 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).
- 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Chris Gunnar Gunnufsen Vice President Technology

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named 	
entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	Chris Gunnar Gunnufsen Vice President Technology 02/11/2021

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.	
	 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. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	
	Submission of Final Allocation or Accounting	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 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

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

Attachments