

Federal Communications Commission

#### (REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID:	12793	Service: <b>DTV</b>	Call Sign:	WAXN-TV	Channel: 32 (UHF)
File	000002	7845			
Number:					
FRN: <b>000</b>	01842491	Date	02/15		
		Submitted:	/2021		

# Applicant Name, Type, and Contact Information

## Information

Applicant	Address	Phone	Email	Applicant Type
WSOC TELEVISION, LLC Doing Business As: WSOC TELEVISION, LLC	Legal Department, Cox Media Group 223 Perimeter Center Parkway NE Atlanta, GA 30346 United States	+1 (470) 508- 3472	alysia. long@cmg. com	Limited Liability Company

#### 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
	<b>Ted Hand</b> Director of Engineering Operations WSOC Television, LLC	Ted Hand 235 West 23rd Street Charlotte, NC 28206 United States	+1 (704) 335- 4732	ted.hand@cmg. com

Broadcaster	Question	Response
Information and Transition Plan	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	WAXN will install the auxiliary transmitter first. It will transmit on that system while the main transmitter is installed. There are separate antennas for main and auxiliary.

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

Auxiliary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Auxiliary (Backup)		
		Description of Use	backup to main		
		Ownership	Owned		
		Owner	N/A		
	Site Is this transmitter currently shared with another station? Is this transmitter currently in operating condition?	Site	N/A		
		-	No		
		Yes			
	Existing Transmitter	Manufacturer			
	Manufacturer and Type	Model	DCD20PL3 Diamond CD		
		Year	1999		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	6 kW		

Auxiliary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Auxiliary (Backup)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	No		
		Manufacturer			
		Model	ULXTE-10		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	6 kW		
		Justification for New Transmitter	Current auxiliary transmitter is tuned to channel 50 and can not be tuned below channel 36		

# Auxiliary Other Transmitter Costs

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	No
		Transformer (480V)	No
		Power	N/A
		Rigid Conduit and Wiring	Yes
		Size	2 inches
		Length	250.0 feet

	Other Electrical Service	Yes
	Description	Wiring for water pumps and mask filter blowers
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

# Auxiliary Other Transmitter Cost Not Listed

Transmitter	Name	Description	
	RF Hanging Supplies	Equipment used to hang RF filters and waveguide in main room	
	Coaxial Switch	Coaxial switch for Main to Aux switching	
	Plumbing Supplies	Plumbing pipe and adapters for liquid cooled transmitter	
	Combiner	Combiner used to combine WAXN Aux and WSOC Aux in to one T/L. Cost is shared with WSOC-TV	

Primary	Existing Transmitter Information				
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	DHD15P1 Diamond CD		
		Year	1999		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	8.5 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?	Yes	
		Manufacturer		
		Model	ULXTE-24	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	16.1 kW	
		Justification for New Transmitter	Current transmitter is tuned to channel 50 and can not be tuned below channel 36. Upgraded transmitter installed - no reimbursement sought beyond like-for-like equipment	

#### Other Transmitter Costs

Primary	Other Transmitter Costs			
Transmitter	Section	Question	Response	
	Electrical Service	Service Entrance (3 phases 800A 208V)	No	
		Switchgear (industrial 800 amp)	No	
		Transformer (480V)	Yes	
		Power	300 kVA	
		Rigid Conduit and Wiring	Yes	
		Size	2 inches	

	Length	250.0 feet
	Other Electrical Service	Yes
	Description	Wiring for water pumps and mask filter blowers.
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	320.0 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

#### Other Transmitter Cost Not Listed

Transmitter	Fransmitter
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Name	Description
RF Equipment	Elbows, hangers, hardware kits, flanges
Distilled Water	Distilled water for cooling transmitter

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

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	Yes	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Тор	
		Polarization	Elliptical	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	150.0 kW	

Manufacturer	
Model	TFU- 25ETT-V/R 4C160
Year	2009

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
New Antenna	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
	-	Is antenna directional?	Yes	
		Will antenna be located on or in close proximity to an antenna farm?	No	
		Class	Full Power	
	Manufacturer and Types	Mounting	Top Mount	
		Antenna position in stack	Тор	
		Polarization	Elliptical	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels/Bays	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Design power capacity in use	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	200.0 kW	
		Manufacturer		
			1	

Model	TFU-16ETT /VP-R 3C180
Year	2009
Justification for New Antenna	Current antenna is a single channel slot tuned to channel 50. It can not be retuned.

# Primary Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
	Combiner for Shared Antenna	Combiner for Shared AntennaDo you need a Combiner for a Shared Antenna?TypeNumber of channels supportedFrequencies of channels supportedFrequencies of channels supportedFrequencyDo you need a combiner output splitter /switcher for dual feed lines?Elbow ComplexDo you require the separate purchase of the Elbow Complex?Broadband or Single Channel?Side Mount BracketsDo you require the separate purchase of side mount brackets for a high power

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

# Primary<br/>AntennaOther Antenna Cost Not ListedInformation not provided.

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

Auxiliary	Existing Transmission Line			
Fransmissio	n Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Auxiliary (Backup)	
		Description of Use	backup to main	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	Yes	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission	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	585 feet per run	

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

**Existing Transmission Line** 

Facility ID	Call Sign
74070	WSOC-TV

Auxiliary Transmissio	New Transmission Line n Line	Question	Response
	New Transmission Line Costs	Use	Auxiliary (Backup)
		Description of Use	backup to main
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	585 feet per run
		Justification for New Transmission Line	Current line is 19 1/2' sections. New assigned channel wil not pass in it.

Other Transmission Line Expenses Not Listed Auxiliary Other Transmission

Primary	Existing Transmission Line			
Transmissio	n Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission	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	1070 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	Purchase New
		Is this a request for upgraded equipment?	No
		Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1070 feet per run
		Justification for New Transmission Line	Current transmission line is 19 1 /2' and will not pass the new assigned channel.

Primary Other Transmission Line Expenses Not Listed

Transmission to me tion not provided.

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

Primary	Existing Tower

Primary 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?	No
		Is this tower currently shared with any other stations?	Yes
		One or more FM, AM or TV radio broadcaster(s)	Yes
		Others Types of Users	No
		Is tower documented for structural analysis?	Yes
		Is tower compliant with Rev G?	Yes
	Existing Tower Structure	Do you have a tower registration number?	Yes
	Registration	ASR Number	1004745
	Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	35° 15' 42.0" N-
	1983))	Longitude (NAD83)	080° 43' 37.0" W-
		Overall Structure Height	1082.01 fee
		Support Structure Height	970.13 feet
		Ground Elevation Above Mean Sea Level (AMSL)	855.96 feet

Structure Type	TOWER - Free Standing of Guyed Structure
Tower Owner	IWG Towers Assets II, LLC
Date Constructed	01/31/2000

#### 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
20339	WSOC-FM	FM
74070	WSOC-TV	DTV

# Primary Tower Modification Costs

Tower

Tower

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

# Primary Tower Rigging Costs

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

Primary	Other Tower Expenses Not Listed			
Tower	Name	Description		
	Tower Modifications	Labor to modify tower		
	Engineering Study	Modification on antenna mount and structure change		

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	25
		Explanation	Project manager hired to coordinate crews and materials.
	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	Yes
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	No
		Quantity	N/A
		Do you have Distributed Transmission System engineering services?	N/A
		Critical Facility	N/A
		Terrain-Shielded Facility	N/A
	Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
	Services	For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare and file Form FCC License to Cover Application	Yes

	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	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 roopstsided.

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

#### Other Expenses Not Listed

Other Expenses

Name	Description	
LPB Work	LPB Consulting, Remediation	
County Permits	Permits to make modification tower	

#### Transmitters

#### Cost Information

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justificatio
Primary Transmitter ULXTE-24	\$1,172,541.18	\$415,791.18		\$386,235.07	
Distilled Water	\$1,300.00	\$1,300.00	N/A	N/A	N/A
RF Equipment	\$10,000.00	\$10,000.00	RF equipment needed to move WAXN aux transmitter to make room for new transmitter.	\$3,331.58	N/A
Other Building Addition Size: 320.0	\$20,600.00	\$20,600.00	N/A	\$15,328.31	N/A
15 Ton system	\$55,800.00	\$14,000.00	Cost to move current unit. Shared cost with WSOC-TV 74070	\$13,288.00	N/A
Other Electrical Service: Wiring for water pumps and mask filter blowers.	\$31,800.00	\$31,800.00	N/A	\$22,446.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$6,500.00	\$6,250.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$0.00	Please see attached GatesAir Quote GA-00024824. This is the upgraded transmitter installed for WAXN - all like- for-like reimbursements processed under a different category.	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$6,100.00	Actual cost lower than estimated.	\$6,100.00	N/A
UHF - Liquid Cooled Solid State Transmitter 8 kW	\$325,741.18	\$325,741.18	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$325,741.18	N/A
Auxiliary Transmitter ULXTE-10	\$316,100.00	\$278,813.14		\$222,628.60	
Combiner	\$8,300.00	\$8,300.00	This is half the cost. Shared with WSOC-TV	\$8,293.12	based o actual invoice
Plumbing Supplies	\$3,500.00	\$3,500.00	N/A	\$1,531.53	N/A
Coaxial Switch	\$4,700.00	\$4,700.00	N/A	N/A	N/A
	\$8,000.00	\$8,000.00	N/A	\$1,880.37	N/A

Other Electrical Service: Wiring for water pumps and mask filter blowers	\$11,600.00	\$11,600.00	N/A	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$6,500.00	\$6,250.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$236,463.14	N/A	\$210,923.58	N/A
Sub-total	\$1,488,641.18	\$694,604.32	N/A	\$608,863.67	N/A
Total for all systems	\$2,917,650.79	\$2,048,112.48	N/A	\$1,679,158.11	N/A

### Components

Actual Information Description	File Name	
Distilled Water	Information not provided.	
RF Equipment	Component Description: Amount:	RF elbows, insulators, reducers \$3,331.58

Other Building Addition Size: 320.0	Component Description:	Metal Outside Doors for building addition - WAXN
	Amount:	costs \$1,821.11
	Component Description:	Building Addition Shared cost with WSOC-TV 74070
	Amount:	\$13,507.20
15 Ton system		
	Component Description:	Cost to move condenser includes new concrete pad and ice bridge. Shared cost with WSOC- TV 74070
	Amount:	\$13,288.00
Other Electrical Service: Wiring for water pumps and mask filter blowers.	Component Description:	Partial Electrical work done for WAXN transmitter
	Amount:	install. \$7,482.00
	Component Description:	second payment to Omni Electric for electrical work on WAXN's transmitter
	Amount:	\$14,964.00
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Information not provided.	

Transformer 3 phase/480v - 300 KVA	Component Description:	480 VAC to 240 VAC, 300KVA transformer for WAXN
	Amount:	\$6,100.00
UHF - Liquid Cooled Solid		
State Transmitter 8 kW	Component Description:	Re-submit with PO
		& Invoice together
	Amount:	\$119,919.80
	Component Description:	Final Billing from
		Gates Air on
		WAXN Main
		Transmitter
	Amount:	\$14,172.85
	Component Description:	WAXN Main 3rd
		payment
	Amount:	\$77,660.67
	Component Description:	WAXN Main 2nd
		payment
	Amount:	\$113,987.86
	Component Description:	1/3 Down payment
	Component Bosonption.	for WAXN MAIN
		transmitter
	Amount:	\$119,919.80

Combiner			
	Component Description:	1/2 cost of combiner. shared with wsoc 74070 wsoc 1/2 has already been	
	Amount:	reimbursed \$7,297.50	
	Component Description:	freight cost aux	
	Amount:	combiner \$995.62	
Plumbing Supplies			
	Component Description:	Copper pipe for WAXN Main & Aux cooling systems	
	Amount:	\$1,531.53	
Coaxial Switch	Information not provided.	Information not provided.	

RF Hanging Supplies		
	Component Description:	Unistrut parts: Post Base, Connect
	Amount:	Plates \$359.94
	Component Description:	Unistrut washer, end caps, connect plates, 1/1/2" pipe
		clamps CORRECTED WAXN-TV
	Amount:	\$1,029.05
	Component Description:	Galvanized Unistrut to mount cooling fans outdoors plus shipping ADDED WAXN-TV
	Amount:	\$393.57
	Component Description:	Correction to Grainger invoice 9847490431 ADDS WAXN-TV FRN 12793
	Amount:	replaces \$97.81
	Component Description:	this submission is a correction for grainger invoice 9851514712
	Amount:	ADDS WAXN 12793 to invoice \$359.94
Other Electrical Service: Wiring for water pumps and	Information not provided.	
mask filter blowers		

2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	Component Description: Amount:	Re-submit with PO & Invoice together \$78,821.05
	Component Description:	WAXN Aux 3rd payment
	Amount:	\$45,491.30
	Component Description:	Final Billing from Gates Air on WAXN Aux
	Amount:	Transmitter \$13,303.00
	Component Description:	WAXN Aux 2nd
	Amount:	payment \$73,308.23
	Component Description:	1/3 down payment on WAXN AUX
	Amount:	Transmitter \$78,821.05

#### Antennas

#### Cost Information

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

Description Primary Antenna TFU-16ETT /VP-R	Predetermined Cost Estimate \$308,530.00	Estimated Cost \$309,900.00	Estimated Cost Justification	Actual Cost \$215,905.00	Actual Cost Justification
3C180 Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$28,500.00	Based on actually invoices	\$10,458.00	Based on actually cost
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$275,000.00	N/A	\$204,807.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$640.00	N/A
Sub-total	\$308,530.00	\$309,900.00	N/A	\$215,905.00	N/A
Total for all systems	\$2,917,650.79	\$2,048,112.48	N/A	\$1,679,158.11	N/A

#### Components

Actual Information Description	File Name	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Amount:	Mounting unit \$2,320.50
	Component Description:	WAXN feed thru and elbow complex
	Amount:	\$1,552.50
	Component Description:	elbow complex 10%
	Amount:	\$658.50
	Component Description:	WAXN 2nd paymentItem 4 on Invoice
	Amount:	MAN01007 \$2,963.25
	Component Description: Amount:	N/A N/A
	Component Description:	Elbow complex (Item 4) (45% down)
	Amount:	\$2,963.25
	Component Description:	sweep cost (10%) per Clarissa Campos
	Amount:	Campos N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	rearanging per Clarissa Campos \$16,995.00
	Component Description:	Antenna, wedding cake, feed-thru (Item
	Amount:	1,2,3) (45% down) \$93,906.00
	Component Description:	WAXN 2nd payment Items: 1,2,& 3 on
	Amount:	Invoice MAN01007 \$93,906.00
Sweep test of existing		
antenna	Component Description:	per clarissa campos 3 17 2020
	Amount:	\$640.00
	Component Description:	Field Engineer
	Amount:	Sweep \$6,400.00

## **Transmission Line**

### 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 Transmission Line	\$216,140.00	\$167,000.00		\$166,068.79	
Rigid Transmission Line - copper, 6 1/8"	\$216,140.00	\$167,000.00	N/A	\$166,068.79	Based on actually cost / invoices
Auxiliary Transmission Line	\$118,170.00	\$112,320.00		\$57,134.39	
Rigid Transmission Line - copper, 6 1/8"	\$118,170.00	\$112,320.00	This is half the cost. The other half in on WSOC- TV's Form 399.	\$57,134.39	N/A
Sub-total	\$334,310.00	\$279,320.00	N/A	\$223,203.18	N/A
Total for all systems	\$2,917,650.79	\$2,048,112.48	N/A	\$1,679,158.11	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8"	Component Description: Amount:	per Clarissa Campos \$1,242.00

Component Description: Amount:	WAXN main field cut TL \$1,718.50
Component Description: Amount:	WAXN main TL \$3,908.31
Component Description: Amount:	transmission line per clarissa Campos \$2,303.07
Component Description: Amount:	WAXN main field cut TL \$6,352.70
Component Description:	WAXN 2nd payment Items 5, 22, & 23 on Invoice MAN01007
Amount:	\$70,279.61
Component Description: Amount:	WAXN freight on TL \$3,408.75
Component Description:	Transmission Line, hangers, field service (45% down)
Amount:	\$70,279.61
Component Description: Amount:	WAXN Freight on TL N/A
Component Description: Amount:	WAXN main field cut TL \$6,576.24

Rigid Transmission Line - copper, 6 1/8"		
	<b>Component Description:</b>	RIGID-
		TRANSMISSION
		LINE
	Amount:	\$2,887.50
	Component Description:	1/2 of the
		outstanding balance
		of \$44,785.00
	Amount:	\$22,392.50
	Component Description:	1/2 cost of freight
		for AUX T/L field
		cuts
	Amount:	\$2,411.89
	Component Description:	WAXN share is
		AUX TL, Eng
	Amount:	\$29,442.50

## **Tower Equipment and Rigging Costs**

#### 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 Tower TOWER	\$519,100.00	\$504,501.00		\$500,772.50	
Engineering Study	\$7,000.00	\$7,000.00	N/A	\$6,900.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$6,500.00	N/A	\$6,437.50	N/A
Tall Tower (greater than 500')	\$210,500.00	\$360,000.00	This is half the cost. The other half is on WSOC- TV's Form 399. Based on actually cost includes main and aux systems.	\$357,132.00	N/A
Tower Modifications	\$131,000.00	\$131,000.00	N/A	\$130,303.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$1.00	N/A	N/A	N/A
Sub-total	\$519,100.00	\$504,501.00	N/A	\$500,772.50	N/A
Total for all systems	\$2,917,650.79	\$2,048,112.48	N/A	\$1,679,158.11	N/A

Actual Information Description	File Name	
Engineering Study		
	Component Description:	Rigging Review and Analysis
	Amount:	\$2,750.00
	Component Description:	TEC Engineer
		Visit for Rigging Review
	Amount:	\$3,550.00
	Component Description:	Tower Load Stud
		Fee
	Amount:	\$600.00
Structural engineering tower		
load study for well	Component Description:	Engineering Stuc
documented tower	Amount:	\$6,437.50

Tall Tower (greater than		
500')	<b>Component Description:</b>	WAXN Aux 2nd
		payment
	Amount:	\$19,102.20
	Component Description:	30% down
		payment on WAXN Tower
	Amount:	work (Aux) \$19,102.20
	Component Description:	30% down
		payment on WAXN Tower
	Amount:	work (Main) \$88,037.40
	Component Description:	WAXN Main 2nd
		payment
	Amount:	\$88,037.40
	Component Description:	WAXN aux 3rd
	Amount:	payment \$25,469.60
	Component Description:	WAXN main 3rd
		payment corrected invoice
	Amount:	\$117,383.20
Fower Modifications		
	Component Description:	Labor for tower
	Amount:	modifications \$130,303.00
Minor tower reinforcement	Information not provided.	

## **Outside Professional Services**

### Cost Information

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

Description Outside Professional	Predetermined Cost Estimate \$146,285.00	Estimated Cost \$146,592.55	Estimated Cost Justification	Actual Cost \$30,882.35	Actual Cc Justificat
Services					
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$5,110.00	Please see WAXN-TV Attorney - Other Matters Budget Revision Justification Letter. The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$4,885.00	see submitte invoices
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$95.90	N/A

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$2,608.30	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$4,755.70	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$450.00	N/A

<ul> <li>coordination issues w/ other stations and wireless</li> <li>Prepare and or review reimbursement form</li> <li>Project management of the transition</li> <li>RF Exposure Measurements</li> <li>Sub-total</li> </ul>	\$2,630.00 \$3,950.00 \$21,050.00 \$146,285.00	\$2,500.00 \$4,368.55 \$20,000.00 \$146,592.55	Timing and Coordination Budget Revision Justification Letter N/A The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time. N/A	\$31.90 \$4,368.55 \$712.50 \$30,882.35	N/A see submitte invoice N/A
issues w/ other stations and wireless Prepare and or review reimbursement form Project management of the transition RF Exposure	\$3,950.00	\$4,368.55	Timing and Coordination Budget Revision Justification Letter N/A The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$4,368.55	see submitte invoice
issues w/ other stations and wireless Prepare and or review reimbursement form Project management of			Timing and Coordination Budget Revision Justification Letter N/A The estimated cost has been adjusted to include all invoices submitted for reimbursement	·	see submitt
issues w/ other stations and wireless Prepare and or review reimbursement form Project management of			Timing and Coordination Budget Revision Justification Letter N/A The estimated cost has been adjusted to	·	see submitt
issues w/ other stations and wireless Prepare and or review reimbursement	\$2,630.00	\$2,500.00	Timing and Coordination Budget Revision Justification Letter	\$31.90	N/A
issues w/ other stations and			Timing and Coordination Budget Revision Justification		
timing and			Attorney - Transition		
Address transition	\$2,630.00	\$314.00	Please see WAXN-TV	\$314.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$15,050.00	Actual Engineering Cost. See attached.	\$12,660.50	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

Actual Information Description	File Name	
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description: Amount:	Analysis and Advice \$297.40
	Component Description: Amount:	Analysis and Advice \$157.00
	Component Description: Amount:	Analysis and Advice \$78.50
	Component Description: Amount:	Analysis and Advice \$1,725.90
	Component Description: Amount:	Analysis and Advice \$215.60
	Component Description: Amount:	Analysis and Advice \$78.50
	Component Description: Amount:	Analysis and Advice \$29.30

Component Description: Amount:	Analysis and Advice \$78.50
Component Description: Amount:	Analysis and Advice \$225.00
Component Description: Amount:	Analysis and Advice \$78.50
Component Description: Amount:	Analysis and Advice \$628.00
Component Description: Amount:	Analysis and Advice \$157.00
Component Description: Amount:	Analysis and Advice \$706.50
Component Description: Amount:	Analysis and Advice \$654.30

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	WAXN-TV-550- Attorney - License to Cover
	Amount:	Application (Main) \$66.60
	Component Description:	WAXN-TV-550- Attorney - License to Cover
	Amount:	Application (Main) \$29.30
Attorney Fees - Aux Antenna, prepare and File		
Form 2100 Construction Permit or License	Component Description:	Full payment of invoice for legal services for WAXN-
Application		TV repack.
	Amount:	\$2,549.70
	Component Description:	WAXN-TV-550- Attorney - License to Cover
		Application
	Amount:	(Auxiliary) \$58.60

Attorney Fees - Prepare and File FCC Form 2100		
(main), Construction Permit Application	Component Description:	Full payment of invoice fro legal
Application		services for WAXN
		TV repack.
	Amount:	\$1,933.50
	Component Description:	Full payment of
		invoice for legal
		services for WAX
		TV repack.
	Amount:	\$308.10
	Component Description:	Full payment of
		invoice for legal services for WAXN
		TV repack.
	Amount:	\$74.80
	Component Description:	Full payment for
		invoice fro legal
		services for WAXN
		TV repack.
	Amount:	\$1,047.20
	Component Description:	Full payment of
	component Description.	invoice for legal
		services for WAXN
		TV repack
		\$1,392.10
	Amount:	ψ1,392.10
RF Consulting Engineer	Amount: Information not provided.	φ1,392.10
RF Consulting Engineer Fees- Aux Antenna:		φ1,392.10
Fees- Aux Antenna: Prepare engineering		ψ1,392.10
Fees- Aux Antenna: Prepare engineering section of FCC Form 2100,		φ1,392.10
Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	φ1,392.10
Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application Prepare engineering		ψ1,352.10
Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	ψ1,352.10

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Amount:	WAXN-TV-530-R Eng - Constructio Permit Applicatior (Auxiliary) \$450.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description:	Requesting 50% for WAXNI filed for the other 50% under WSOC
	Amount:	\$10,523.00
	Component Description:	Professional services rendered
	Amount:	\$2,137.50
Address transition timing and coordination issues w/ other stations and wireless	Component Description:	WAXN-TV-550- Attorney - Transition timing
	Amount:	and coordination \$314.00
Prepare and or review reimbursement form		
	Component Description:	Analysis and Advice
	Amount:	\$31.90
Project management of the transition	Component Description:	Project
	-	Management \$4,368.55

RF Exposure		
Measurements	Component Description:	WAXN-TV-580-
		Field Engineering
		Service - RF
		Exposure
		Measurements
	Amount:	\$712.50

## **Other Expenses**

## 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
Other Expenses	\$120,784.61	\$113,194.61		\$99,531.41	
Equipment Delivery and Handling Charges	\$3,564.61	\$3,564.61	Estimated Cost Justification WAXN-TV- 610- Equipment and Handling v1	\$2,496.41	N/A
County Permits	\$4,625.00	\$4,625.00	N/A	\$4,625.00	N/A
LPB Work	\$90,000.00	\$90,000.00	N/A	\$88,800.00	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	N/A	N/A	N/A
Equipment Storage	\$2,600.00	\$2,600.00	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

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	per Estimated Cost Justification WAXN-TV- 610-FCC Filing Fee - License to Cover Application V0	\$335.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,000.00	N/A	\$3,275.00	N/A
Sub-total	\$120,784.61	\$113,194.61	N/A	\$99,531.41	N/A
Total for all systems	\$2,917,650.79	\$2,048,112.48	N/A	\$1,679,158.11	N/A

Actual Information Description	File Name	
Equipment Delivery and Handling Charges	Component Description: Amount:	FREIGHT AND SHIPPING \$2,010.00
	Component Description: Amount:	FREIGHT AND SHIPPING \$486.41
County Permits	Component Description: Amount:	Permits for tower modifications \$4,625.00

LPB Work		
	Component Description:	LBP Consulting - Antenna
	Amount:	Transmission Lin \$16,400.00
	Amount.	ψ10, <del>1</del> 00.00
	Component Description:	LBP Consulting - Modifications
	Amount:	\$9,900.00
	Component Description:	Industrial Hygenis
	Amount:	Support \$6,250.00
	Component Description:	Industrial Hygenis
	Amount:	Support \$6,250.00
	Component Description: Amount:	LBP Remediation \$50,000.00
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
FCC Filing Fees - Form 2100 license to cover	Component Description:	Analysis and
application		Advice
	Amount:	\$335.00
	Information not provided.	

DTV Medical Facility		
Notification	Component Description:	Medical
		Notification -
		WAXN
	Amount:	\$3,275.00

Cost Information	Grand Total				
		Predetermined Cost Estimate	Estimated Cost	Actual Cost	
	Total for all systems	\$2,917,650.79	\$2,048,112.48	\$1,679,158.11	

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		<ol> <li>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.</li> <li>The above-named</li> </ol>	
		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.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	<b>Ted Hand</b> Director of Engineering /Operations 02/15/2021

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).	
		<ol> <li>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.</li> </ol>	
		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).
- 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.

<ul> <li>must be promptly refunded to the Commission.</li> <li>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.</li> </ul>	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	<b>Ted Hand</b> Director of Engineering /Operations
	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)

## Attachments