Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **12793** | Service: **DTV** | Call Sign: **WAXN-TV** | Channel: **32 (UHF)**

File Number: **0000027845**

FRN: **0001842491** | Date Submitted: **04/02/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WSOC TELEVISION, LLC Doing Business As: WSOC TELEVISION, LLC.	Ted Hand 235 West 23rd Street CHARLOTTE, NC 28234 United States	+1 (704) 335-4700	ted.hand@cmg.com	Limited Liability Company

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Ted Hand *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 Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	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 Transmitter

Existing Transmitter Information

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	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCD20PL3 Diamond CD
	Year	1999
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	6 kW

Auxiliary Transmitter

New Transmitter Costs

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 Transmitter

Other Transmitter Costs

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
	Type	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 Transmitter

Other Transmitter Cost Not Listed

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DHD15P1 Diamond CD
	Year	1999
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8.5 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	8.5 kW
	Justification for New Transmitter	Current transmitter is tuned to channel 50 and can not be tuned below channel 36.

Primary Transmitter

Other Transmitter Costs

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
	Type	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 Transmitter

Other Transmitter Cost Not Listed

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

Antennas

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

Primary Antenna

Existing Antenna Information

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

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

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	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
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	150.0 kW
	Manufacturer	

Model	TFU-25ETT-V/R 4C160
Year	2009
Justification for New Antenna	Current antenna is a single channel slot tuned to channel 50. It can not be retuned.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Auxiliary Transmission Line

Existing Transmission 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 Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	585 feet per run

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

Facility ID	Call Sign
74070	WSOC-TV

Auxiliary Transmission Line

New Transmission Line

Section	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
	Type	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 will not pass in it.

Auxiliary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	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 Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	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 Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	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 Registration	Do you have a tower registration number?	Yes
	ASR Number	1004745
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	35° 15' 42.0" N-
	Longitude (NAD83)	080° 43' 37.0" W-
	Overall Structure Height	1082.01 feet
	Support Structure Height	970.13 feet
	Ground Elevation Above Mean Sea Level (AMSL)	855.96 feet

Structure Type	TOWER - Free Standing or 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
74070	WSOC-TV	DTV

Primary Tower

Tower Modification Costs

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

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Modifications	Labor to modify tower
Engineering Study	Modification on antenna mount and structure change

Outside Professional Services Costs

Section	Question	Response
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 Services	Prepare and file Form FCC Construction Permit Application	Yes
	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	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Information not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	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

Other Expenses Not Listed

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

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-12	**$983,041.18**	**$415,792.18**		**$386,235.07**	
Transformer 3 phase /480v - 300 KVA	$36,800.00	$6,100.00	Actual cost lower than estimated.	$6,100.00	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
Distilled Water	***$1,300.00***	$1,300.00	N/A	N/A	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 8.2 - 13 kW	$494,500.00	$1.00	N/A	N/A	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 on actual invoice
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
Coaxial Switch	***$4,700.00***	$4,700.00	N/A	N/A	N/A
Plumbing Supplies	***$3,500.00***	$3,500.00	N/A	$1,531.53	N/A
RF Hanging Supplies	***$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
Sub-total	$1,299,141.18	$694,605.32	N/A	$608,863.67	N/A
Total for all systems	$2,717,746.18	$2,038,496.32	N/A	$1,657,973.36	N/A

Components

Actual Information Description	**File Name**	
Transformer 3 phase/480v - 300 KVA	**Component Description:** **Amount:**	480 VAC to 240 VAC, 300KVA transformer for WAXN $6,100.00
RF Equipment	**Component Description:** **Amount:**	RF elbows, insulators, reducers $3,331.58

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

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 8 kW	**Component Description:** **Amount:**	WAXN Main 2nd payment $113,987.86
	Component Description: **Amount:**	Final Billing from Gates Air on WAXN Main Transmitter $14,172.85
	Component Description: **Amount:**	1/3 Down payment for WAXN MAIN transmitter $119,919.80
	Component Description: **Amount:**	WAXN Main 3rd payment $77,660.67
	Component Description: **Amount:**	Re-submit with PO & Invoice together $119,919.80
Combiner	**Component Description:** **Amount:**	1/2 cost of combiner. shared with wsoc 74070.... wsoc 1/2 has already been reimbursed $7,297.50
	Component Description: **Amount:**	freight cost aux combiner $995.62

2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	**Component Description:** WAXN Aux 2nd payment **Amount:** $73,308.23 **Component Description:** Final Billing from Gates Air on WAXN Aux Transmitter **Amount:** $13,303.00 **Component Description:** WAXN Aux 3rd payment **Amount:** $45,491.30 **Component Description:** 1/3 down payment on WAXN AUX Transmitter **Amount:** $78,821.05 **Component Description:** Re-submit with PO & Invoice together **Amount:** $78,821.05
Coaxial Switch	Information not provided.
Plumbing Supplies	**Component Description:** Copper pipe for WAXN Main & Aux cooling systems **Amount:** $1,531.53

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

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-25ETT-V/R 4C160	**$308,530.00**	**$309,900.00**		**$215,905.00**	
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
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$640.00	N/A
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
Sub-total	$308,530.00	$309,900.00	N/A	$215,905.00	N/A
Total for all systems	$2,717,746.18	$2,038,496.32	N/A	$1,657,973.36	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:**	elbow complex 10% $658.50
	Component Description: **Amount:**	sweep cost (10%) per Clarissa Campos N/A
	Component Description: **Amount:**	WAXN 2nd payment..Item 4 on Invoice MAN01007 $2,963.25
	Component Description: **Amount:**	N/A N/A
	Component Description: **Amount:**	Elbow complex (Item 4) (45% down) $2,963.25
	Component Description: **Amount:**	WAXN feed thru and elbow complex $1,552.50
	Component Description: **Amount:**	Mounting unit $2,320.50

Sweep test of existing antenna	**Component Description:** **Amount:**	per clarissa campos 3 17 2020 $640.00
	Component Description: **Amount:**	Field Engineer Sweep $6,400.00
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: **Amount:**	WAXN 2nd payment Items: 1,2,& 3 on Invoice MAN01007 $93,906.00
	Component Description: **Amount:**	Antenna, wedding cake, feed-thru (Item 1,2,3) (45% down) $93,906.00

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
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**		**$51,835.00**	
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.	$51,835.00	N/A
Sub-total	$334,310.00	$279,320.00	N/A	$217,903.79	N/A
Total for all systems	$2,717,746.18	$2,038,496.32	N/A	$1,657,973.36	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** WAXN main field cut TL **Amount:** $6,576.24

Component Description:	WAXN main field cut TL
Amount:	$1,718.50
Component Description:	WAXN main TL
Amount:	$3,908.31
Component Description:	transmission line per clarissa Campos
Amount:	$2,303.07
Component Description:	WAXN main field cut TL
Amount:	$6,352.70
Component Description:	WAXN freight on TL
Amount:	$3,408.75
Component Description:	per Clarissa Campos
Amount:	$1,242.00
Component Description:	WAXN 2nd payment Items 5, 22, & 23 on Invoice MAN01007
Amount:	$70,279.61
Component Description:	Transmission Line, hangers, field service (45% down)
Amount:	$70,279.61

	Component Description:	WAXN Freight on TL
	Amount:	N/A
Rigid Transmission Line - copper, 6 1/8"	**Component Description:**	1/2 of the outstanding balance of $44,785.00
	Amount:	$22,392.50
	Component Description:	WAXN share is AUX TL, Eng
	Amount:	$29,442.50

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	**$519,100.00**	**$504,501.00**		**$500,772.50**	
Minor tower reinforcement /modifications	$158,000.00	$1.00	N/A	N/A	N/A
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
Sub-total	$519,100.00	$504,501.00	N/A	$500,772.50	N/A
Total for all systems	$2,717,746.18	$2,038,496.32	N/A	$1,657,973.36	N/A

Components

Actual Information Description	File Name
Minor tower reinforcement /modifications	Information not provided.
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 Study Fee **Amount:** $600.00
Structural engineering tower load study for well documented tower	**Component Description:** Engineering Study **Amount:** $6,437.50

Tall Tower (greater than 500')	**Component Description:**	WAXN main 3rd payment corrected invoice
	Amount:	$117,383.20
	Component Description:	WAXN Aux 2nd payment
	Amount:	$19,102.20
	Component Description:	30% down payment on WAXN Tower work (Aux)
	Amount:	$19,102.20
	Component Description:	WAXN Main 2nd payment
	Amount:	$88,037.40
	Component Description:	WAXN aux 3rd payment
	Amount:	$25,469.60
	Component Description:	30% down payment on WAXN Tower work (Main)
	Amount:	$88,037.40
Tower Modifications	**Component Description:**	Labor for tower modifications
	Amount:	$130,303.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$139,445.00**	**$140,550.00**		**$17,828.40**	
RF Exposure Measurements	$21,050.00	$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	$0.00	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	$4,210.00	$4,000.00	N/A	$2,549.70	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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$15,050.00	Actual Engineering Cost. See attached.	$10,523.00	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A
Project management of the transition	$3,950.00	$3,750.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$4,755.70	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	N/A	N/A
Sub-total	$139,445.00	$140,550.00	N/A	$17,828.40	N/A
Total for all systems	$2,717,746.18	$2,038,496.32	N/A	$1,657,973.36	N/A

Components

Actual Information Description	File Name
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	**Component Description:** Full payment of invoice for legal services for WAXN-TV repack. **Amount:** $2,549.70
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Requesting 50% for WAXN...I filed for the other 50% under WSOC $10,523.00
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Information not provided.	

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

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$117,220.00**	**$109,620.00**		**$96,700.00**	
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
Equipment Delivery and Handling Charges	***$0.00***	$0.00	N/A	$0.00	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	$325.00	N/A	N/A	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	$117,220.00	$109,620.00	N/A	$96,700.00	N/A
Total for all systems	$2,717,746.18	$2,038,496.32	N/A	$1,657,973.36	N/A

Components

Actual Information Description	File Name	
County Permits	**Component Description:** **Amount:**	Permits for tower modifications $4,625.00

LPB Work	**Component Description:** LBP Consulting - Modifications **Amount:** $9,900.00 **Component Description:** LBP Remediation **Amount:** $50,000.00 **Component Description:** LBP Consulting - Antenna Transmission Line **Amount:** $16,400.00 **Component Description:** Industrial Hygenist Support **Amount:** $6,250.00 **Component Description:** Industrial Hygenist Support **Amount:** $6,250.00
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	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 application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	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	$2,717,746.18	$2,038,496.32	$1,657,973.36

Reimbursement Status

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

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Ted Hand** *Director of Engineering /Operations* 04/02/2020

Certification

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

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

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Ted Hand** *Director of Engineering /Operations* 04/02/2020

Attachments