



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **12793** | Service: **DTV** | Call **WAXN-TV** | Channel: **32 (UHF)** |  
ID: | Sign:  
File **0000027845**  
Number:  
FRN: **0001842491** | Date **11/13**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WSOC TELEVISION, LLC</b> Doing Business As: WSOC TELEVISION, LLC.	Ted Hand PO BOX 34665 CHARLOTTE, NC 28234 United States	+1 (704) 335-4700	ted. hand@wsoc- tv.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
<b>Ted Hand</b> <i>Director of Engineering Operations WSOC Television, LLC</i>	Ted Hand 1901 North Tryon Street Charlotte, NC 28206 United States	+1 (704) 335- 4732	ted.hand@coxinc. 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
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	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
<b>New Transmitter</b>	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
<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Coaxial Switch</b>	Coaxial switch for Main to Aux switching
<b>Combiner</b>	Combiner used to combine WAXN Aux and WSOC Aux in to one T/L. Cost is shared with WSOC-TV
<b>Plumbing Supplies</b>	Plumbing pipe and adapters for liquid cooled transmitter
<b>RF Hanging Supplies</b>	Equipment used to hang RF filters and waveguide in main room

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DHD15P1 Diamond CD
	Year	1999
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8 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 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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	15 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	320.0 square feet
<b>Channel 14 Costs</b>	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
<b>RF Equipment</b>	Elbows, hangers, hardware kits, flanges
<b>Distilled Water</b>	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
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No

<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	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
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	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**      **New Transmission Line**  
**Transmission Line**      **Section**

Section	Question	Response
<b>New Transmission Line Costs</b>	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**      **Other Transmission Line Expenses Not Listed**  
**Transmission Line**      **Information not provided.**

**Primary**  
**Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	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** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	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** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

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**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	25
	Explanation	Project manager hired to coordinate crews and materials.
<b>Outside RF consulting Engineering Services</b>	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
<b>Attorney and Other Outside Consulting Services</b>	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
<b>RF Field Engineering Services</b>	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**

Services not provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	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
<b>Primary Transmitter ULXTE-12</b>	<b>\$522,559.41</b>	<b>\$449,809.41</b>		<b>\$372,062.22</b>	
Distilled Water	<i>\$1,300.00</i>	\$1,300.00	N/A	N/A	N/A
RF Equipment	<i>\$10,000.00</i>	\$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	<i>\$20,600.00</i>	\$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.	<i>\$31,800.00</i>	\$31,800.00	N/A	\$22,446.00	N/A

UHF - Liquid Cooled Solid State Transmitter 8 kW	<b>\$359,759.41</b>	\$359,759.41	N/A	\$311,568.33	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$6,100.00	Actual cost lower than estimated.	\$6,100.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$6,500.00	\$6,250.00	N/A	N/A	N/A
<b>Auxiliary Transmitter ULXTE-10</b>	<b>\$315,100.00</b>	<b>\$277,813.14</b>		<b>\$208,329.98</b>	
RF Hanging Supplies	<b>\$8,000.00</b>	\$8,000.00	N/A	\$1,880.37	N/A
Combiner	<b>\$7,300.00</b>	\$7,300.00	This is half the cost. Shared with WSOC-TV	\$7,297.50	N/A
Coaxial Switch	<b>\$4,700.00</b>	\$4,700.00	N/A	N/A	N/A
Other Electrical Service: Wiring for water pumps and mask filter blowers	<b>\$11,600.00</b>	\$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	\$197,620.58	N/A
Plumbing Supplies	<b>\$3,500.00</b>	\$3,500.00	N/A	\$1,531.53	N/A
<b>Sub-total</b>	\$837,659.41	\$727,622.55	N/A	\$580,392.20	N/A
<b>Total for all systems</b>	\$2,256,264.41	\$2,069,513.55	N/A	\$1,627,454.93	N/A

## Components

Actual Information	
Description	File Name
Distilled Water	Information not provided.
RF Equipment	<p><b>Component Description:</b> RF elbows, insulators, reducers</p> <p><b>Amount:</b> \$3,331.58</p>
Other -- Building Addition Size: 320.0	<p><b>Component Description:</b> Metal Outside Doors for building addition - WAXN costs</p> <p><b>Amount:</b> \$1,821.11</p> <p><b>Component Description:</b> Building Addition Shared cost with WSOC-TV 74070</p> <p><b>Amount:</b> \$13,507.20</p>

15 Ton system	<div> <div> <b>Component Description:</b> </div> <div> Cost to move condenser includes new concrete pad and ice bridge. Shared cost with WSOC-TV 74070 </div> </div> <div> <b>Amount:</b> </div> <div> \$13,288.00 </div>
Other Electrical Service: Wiring for water pumps and mask filter blowers.	<div> <div> <b>Component Description:</b> </div> <div> second payment to Omni Electric for electrical work on WAXN's transmitter </div> </div> <div> <b>Amount:</b> </div> <div> \$14,964.00 </div> <div> <div> <b>Component Description:</b> </div> <div> Partial Electrical work done for WAXN transmitter install. </div> </div> <div> <b>Amount:</b> </div> <div> \$7,482.00 </div>

UHF - Liquid Cooled Solid State Transmitter 8 kW	<div> <b>Component Description:</b> WAXN Main 3rd payment</div> <div> <b>Amount:</b> \$77,660.67 </div>
	<div> <b>Component Description:</b> 1/3 Down payment for WAXN MAIN transmitter</div> <div> <b>Amount:</b> \$119,919.80 </div>
	<div> <b>Component Description:</b> WAXN Main 2nd payment</div> <div> <b>Amount:</b> \$113,987.86 </div>
	<div> <b>Component Description:</b> Re-submit with PO &amp; Invoice together</div> <div> <b>Amount:</b> \$119,919.80 </div>
Transformer 3 phase/480v - 300 KVA	<div> <b>Component Description:</b> 480 VAC to 240 VAC, 300KVA transformer for WAXN</div> <div> <b>Amount:</b> \$6,100.00 </div>
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

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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:** Unistrut parts: Post  
Base, Connect  
Plates

**Amount:** \$359.94

**Component Description:** Galvanized  
Unistrut to mount  
cooling fans  
outdoors plus  
shipping ADDED  
WAXN-TV

**Amount:** \$393.57

**Component Description:** this submission is  
a correction for  
grainger invoice  
9851514712  
ADDS WAXN  
12793 to invoice

**Amount:** \$359.94

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Combiner	<p><b>Component Description:</b> 1/2 cost of combiner. shared with wsoc 74070.... wsoc 1/2 has already been reimbursed</p> <p><b>Amount:</b> \$7,297.50</p>
Coaxial Switch	Information not provided.
Other Electrical Service: Wiring for water pumps and mask filter blowers	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<p><b>Component Description:</b> WAXN Aux 2nd payment</p> <p><b>Amount:</b> \$73,308.23</p> <p><b>Component Description:</b> WAXN Aux 3rd payment</p> <p><b>Amount:</b> \$45,491.30</p> <p><b>Component Description:</b> Re-submit with PO &amp; Invoice together</p> <p><b>Amount:</b> \$78,821.05</p> <p><b>Component Description:</b> 1/3 down payment on WAXN AUX Transmitter</p> <p><b>Amount:</b> \$78,821.05</p>
Plumbing Supplies	<p><b>Component Description:</b> Copper pipe for WAXN Main &amp; Aux cooling systems</p> <p><b>Amount:</b> \$1,531.53</p>

## 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
<b>Primary Antenna TFU-25ETT-V/R 4C160</b>	<b>\$308,530.00</b>	<b>\$309,900.00</b>		<b>\$215,848.50</b>	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$28,500.00	Based on actually invoices	\$28,036.50	Based on actually cost
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	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	\$187,812.00	N/A
<b>Sub-total</b>	<b>\$308,530.00</b>	<b>\$309,900.00</b>	<b>N/A</b>	<b>\$215,848.50</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,256,264.41</b>	<b>\$2,069,513.55</b>	<b>N/A</b>	<b>\$1,627,454.93</b>	<b>N/A</b>

## Components

Actual Information		
Description	File Name	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b>	N/A
	<b>Amount:</b>	N/A
	<b>Component Description:</b>	WAXN 2nd payment..Item 4 on Invoice
	<b>Amount:</b>	MAN01007
	<b>Component Description:</b>	Elbow complex (Item 4) (45% down)
	<b>Amount:</b>	\$2,963.25
	<b>Component Description:</b>	WAXN feed thru and elbow complex
	<b>Amount:</b>	\$22,110.00
Sweep test of existing antenna	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>	Antenna, wedding cake, feed-thru (Item 1,2,3) (45% down)
	<b>Amount:</b>	\$93,906.00
	<b>Component Description:</b>	WAXN 2nd payment Items: 1,2,& 3 on Invoice
	<b>Amount:</b>	MAN01007 \$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	\$165,000.00		\$164,078.33	
Rigid Transmission Line - copper, 6 1/8"	\$216,140.00	\$165,000.00	N/A	\$164,078.33	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	\$277,320.00	N/A	\$215,913.33	N/A
Total for all systems	\$2,256,264.41	\$2,069,513.55	N/A	\$1,627,454.93	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line -  
copper, 6 1/8"

**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:** \$3,408.75

**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 Freight on  
TL  
**Amount:** \$1,554.61

**Component Description:** WAXN main TL  
**Amount:** \$3,908.31

**Component Description:** WAXN main field  
cut TL  
**Amount:** \$6,352.70

Rigid Transmission Line - copper, 6 1/8"		
	<b>Component Description:</b>	WAXN share is
	<b>Amount:</b>	AUX TL, Eng \$29,442.50
	<b>Component Description:</b>	1/2 of the
		outstanding
		balance of
	<b>Amount:</b>	\$44,785.00 \$22,392.50

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	
Engineering Study	<i>\$7,000.00</i>	\$7,000.00	N/A	\$6,900.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$1.00	N/A	N/A	N/A
Tower Modifications	<i>\$131,000.00</i>	\$131,000.00	N/A	\$130,303.00	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
Structural engineering tower load study for well documented tower	\$12,600.00	\$6,500.00	N/A	\$6,437.50	N/A
Sub-total	\$519,100.00	\$504,501.00	N/A	\$500,772.50	N/A
Total for all systems	\$2,256,264.41	\$2,069,513.55	N/A	\$1,627,454.93	N/A

Components

Actual Information	
Description	File Name
Engineering Study	<b>Component Description:</b>
	Rigging Review and Analysis
	<b>Amount:</b>
	\$2,750.00
	<b>Component Description:</b>
	TEC Engineer Visit for Rigging Review
	<b>Amount:</b>
	\$3,550.00
	<b>Component Description:</b>
	Tower Load Study Fee
	<b>Amount:</b>
	\$600.00
Minor tower reinforcement /modifications	Information not provided.
Tower Modifications	<b>Component Description:</b>
	Labor for tower modifications
	<b>Amount:</b>
	\$130,303.00

Tall Tower (greater than 500')	<b>Component Description:</b> WAXN Main 2nd payment <b>Amount:</b> \$88,037.40
	<b>Component Description:</b> 30% down payment on WAXN Tower work (Main) <b>Amount:</b> \$88,037.40
	<b>Component Description:</b> 30% down payment on WAXN Tower work (Aux) <b>Amount:</b> \$19,102.20
	<b>Component Description:</b> WAXN main 3rd payment <b>Amount:</b> \$117,383.20
	<b>Component Description:</b> WAXN aux 3rd payment <b>Amount:</b> \$25,469.60
	<b>Component Description:</b> WAXN Aux 2nd payment <b>Amount:</b> \$19,102.20
Structural engineering tower load study for well documented tower	<b>Component Description:</b> Engineering Study <b>Amount:</b> \$6,437.50

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
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	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
<b>Sub-total</b>	\$139,445.00	\$140,550.00	N/A	\$17,828.40	N/A
<b>Total for all systems</b>	\$2,256,264.41	\$2,069,513.55	N/A	\$1,627,454.93	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	<p><b>Component Description:</b> Full payment of invoice for legal services for WAXN-TV repack.</p> <p><b>Amount:</b> \$2,549.70</p>

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="718 100 1145 421"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1145 100 1426 421"> <p>Full payment of invoice for legal services for WAXN-TV repack. \$308.10</p> </td></tr> <tr> <td data-bbox="718 421 1145 741"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1145 421 1426 741"> <p>Full payment of invoice for legal services for WAXN-TV repack. \$74.80</p> </td></tr> <tr> <td data-bbox="718 741 1145 1061"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1145 741 1426 1061"> <p>Full payment of invoice for legal services for WAXN-TV repack \$1,392.10</p> </td></tr> <tr> <td data-bbox="718 1061 1145 1382"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1145 1061 1426 1382"> <p>Full payment of invoice fro legal services for WAXN-TV repack. \$1,933.50</p> </td></tr> <tr> <td data-bbox="718 1382 1145 1621"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1145 1382 1426 1621"> <p>Full payment for invoice fro legal services for WAXN-TV repack. \$1,047.20</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice for legal services for WAXN-TV repack. \$308.10</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice for legal services for WAXN-TV repack. \$74.80</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice for legal services for WAXN-TV repack \$1,392.10</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice fro legal services for WAXN-TV repack. \$1,933.50</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment for invoice fro legal services for WAXN-TV repack. \$1,047.20</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice for legal services for WAXN-TV repack. \$308.10</p>										
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice for legal services for WAXN-TV repack. \$74.80</p>										
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice for legal services for WAXN-TV repack \$1,392.10</p>										
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment of invoice fro legal services for WAXN-TV repack. \$1,933.50</p>										
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Full payment for invoice fro legal services for WAXN-TV repack. \$1,047.20</p>										
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p>	<p>Information not provided.</p>										
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>										

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit 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	<p><b>Component Description:</b> Requesting 50% for WAXN...I filed for the other 50% under WSOC</p> <p><b>Amount:</b> \$10,523.00</p>
Prepare and or review reimbursement form	Information not provided.
Project management of the transition	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
<b>Other Expenses</b>	<b>\$117,220.00</b>	<b>\$109,620.00</b>		<b>\$96,700.00</b>	
LPB Work	<i>\$90,000.00</i>	\$90,000.00	N/A	\$88,800.00	N/A
County Permits	<i>\$4,625.00</i>	\$4,625.00	N/A	\$4,625.00	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,500.00</i>	\$1,500.00	N/A	N/A	N/A
Equipment Storage	<i>\$2,600.00</i>	\$2,600.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$0.00</i>	\$0.00	N/A	\$0.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$3,500.00</i>	\$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
<b>Sub-total</b>	\$117,220.00	\$109,620.00	N/A	\$96,700.00	N/A
<b>Total for all systems</b>	\$2,256,264.41	\$2,069,513.55	N/A	\$1,627,454.93	N/A

## Components

Actual Information	
Description	File Name
LPB Work	
	<b>Component Description:</b> Industrial Hygenist Support
	<b>Amount:</b> \$6,250.00
	<b>Component Description:</b> LBP Consulting - Antenna Transmission Line
	<b>Amount:</b> \$16,400.00
	<b>Component Description:</b> Industrial Hygenist Support
	<b>Amount:</b> \$6,250.00
	<b>Component Description:</b> LBP Remediation
	<b>Amount:</b> \$50,000.00
	<b>Component Description:</b> LBP Consulting - Modifications
	<b>Amount:</b> \$9,900.00

County Permits	<div> <div><b>Component Description:</b></div> <div>Permits for tower modifications</div> <div><b>Amount:</b></div> <div>\$4,625.00</div> </div>
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	<div> <div><b>Component Description:</b></div> <div>Medical Notification - WAXN</div> <div><b>Amount:</b></div> <div>\$3,275.00</div> </div>

**Cost  
Information**

**Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,256,264.41	\$2,069,513.55	\$1,627,454.93

**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	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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*

11/13/2019

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Ted Hand</b>  <i>Director of Engineering /Operations</i></p> <p>11/13/2019</p>

## Attachments