



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **12793** | Service: **DTV** | Call **WAXN-TV** | Channel: **32 (UHF)** |
ID:
File **0000027845**
Number:
FRN: **0001842491** | Date **08/01**
Submitted: **/2018**

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 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
Ted Hand <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
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 leasehold 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
Combiner	Combiner used to combine WAXN Aux and WSOC Aux in to one T/L. Cost is shared with WSOC-TV
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

**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 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.
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 leasehold 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
Distilled Water	Distilled water for cooling transmitter
RF Equipment	Elbows, hangers, hardware kits, flanges

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 **New Transmission Line**
Transmission Line **Section**

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 **Other Transmission Line Expenses Not Listed**
Transmission Line **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 **New Transmission Line**
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 **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	Move Equipment
	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 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

Information not provided.

**Outside
Professional**

Section	Question	Response
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 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**

Services 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 Information not provided.
-----------------------	---

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	\$522,559.41	\$449,809.41		\$165,449.69	
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
Distilled Water	<i>\$1,300.00</i>	\$1,300.00	N/A	N/A	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	\$7,482.00	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 kW	\$359,759.41	\$359,759.41	N/A	\$119,919.80	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$6,100.00	Actual cost lower than estimated.	\$6,100.00	N/A
Auxiliary Transmitter ULXTE-10	\$315,100.00	\$277,813.14		\$80,701.42	
RF Hanging Supplies	\$8,000.00	\$8,000.00	N/A	\$1,880.37	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$236,463.14	N/A	\$78,821.05	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$6,500.00	\$6,250.00	N/A	N/A	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

Combiner	\$7,300.00	\$7,300.00	This is half the cost. Shared with WSOC-TV	N/A	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	N/A	N/A
Sub-total	\$837,659.41	\$727,622.55	N/A	\$246,151.11	N/A
Total for all systems	\$1,853,039.41	\$1,652,587.55	N/A	\$431,128.37	N/A

Components

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

15 Ton system	<p>Component Description: Cost to move condenser includes new concrete pad and ice bridge. Shared cost with WSOC-TV 74070</p> <p>Amount: \$13,288.00</p>
Other Electrical Service: Wiring for water pumps and mask filter blowers.	<p>Component Description: Partial Electrical work done for WAXN transmitter install.</p> <p>Amount: \$7,482.00</p>
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 8 kW	<p>Component Description: 1/3 Down payment for WAXN MAIN transmitter</p> <p>Amount: \$119,919.80</p> <p>Component Description: Re-submit with PO & Invoice together</p> <p>Amount: \$119,919.80</p>
Transformer 3 phase/480v - 300 KVA	<p>Component Description: 480 VAC to 240 VAC, 300KVA transformer for WAXN</p> <p>Amount: \$6,100.00</p>

RF Hanging Supplies	<table> <tr> <td data-bbox="711 98 1114 405">Component Description:</td><td data-bbox="1114 98 1426 405">this submission is a correction for Grainger submission "grainger2.pdf" per MSG1753014</td></tr> <tr> <td data-bbox="711 405 1114 510">Amount:</td><td data-bbox="1114 405 1426 510">\$359.94</td></tr> <tr> <td data-bbox="711 510 1114 674">Component Description:</td><td data-bbox="1114 510 1426 674">Unistrut parts: Post Base, Connect Plates</td></tr> <tr> <td data-bbox="711 674 1114 779">Amount:</td><td data-bbox="1114 674 1426 779">\$359.94</td></tr> <tr> <td data-bbox="711 779 1114 920">Component Description:</td><td data-bbox="1114 779 1426 920">Unistrut post for WAXN cooling fans</td></tr> <tr> <td data-bbox="711 920 1114 1025">Amount:</td><td data-bbox="1114 920 1426 1025">\$97.81</td></tr> <tr> <td data-bbox="711 1025 1114 1234">Component Description:</td><td data-bbox="1114 1025 1426 1234">Galvanized Unistrut to mount cooling fans outdoors plus shipping</td></tr> <tr> <td data-bbox="711 1234 1114 1339">Amount:</td><td data-bbox="1114 1234 1426 1339">\$393.57</td></tr> <tr> <td data-bbox="711 1339 1114 1619">Component Description:</td><td data-bbox="1114 1339 1426 1619">Unistrut washer, end caps, connect plates, 1/1/2" pipe clamps</td></tr> <tr> <td data-bbox="711 1619 1114 1724">Amount:</td><td data-bbox="1114 1619 1426 1724">\$1,029.05</td></tr> </table>	Component Description:	this submission is a correction for Grainger submission "grainger2.pdf" per MSG1753014	Amount:	\$359.94	Component Description:	Unistrut parts: Post Base, Connect Plates	Amount:	\$359.94	Component Description:	Unistrut post for WAXN cooling fans	Amount:	\$97.81	Component Description:	Galvanized Unistrut to mount cooling fans outdoors plus shipping	Amount:	\$393.57	Component Description:	Unistrut washer, end caps, connect plates, 1/1/2" pipe clamps	Amount:	\$1,029.05
Component Description:	this submission is a correction for Grainger submission "grainger2.pdf" per MSG1753014																				
Amount:	\$359.94																				
Component Description:	Unistrut parts: Post Base, Connect Plates																				
Amount:	\$359.94																				
Component Description:	Unistrut post for WAXN cooling fans																				
Amount:	\$97.81																				
Component Description:	Galvanized Unistrut to mount cooling fans outdoors plus shipping																				
Amount:	\$393.57																				
Component Description:	Unistrut washer, end caps, connect plates, 1/1/2" pipe clamps																				
Amount:	\$1,029.05																				
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<table> <tr> <td data-bbox="711 1619 1114 1816">Component Description:</td><td data-bbox="1114 1619 1426 1816">1/3 down payment on WAXN AUX Transmitter</td></tr> <tr> <td data-bbox="711 1816 1114 1921">Amount:</td><td data-bbox="1114 1816 1426 1921">\$78,821.05</td></tr> <tr> <td data-bbox="711 1921 1114 2121">Component Description:</td><td data-bbox="1114 1921 1426 2121">Re-submit with PO & Invoice together</td></tr> <tr> <td data-bbox="711 2121 1114 2226">Amount:</td><td data-bbox="1114 2121 1426 2226">\$78,821.05</td></tr> </table>	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												
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																				

2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Other Electrical Service: Wiring for water pumps and mask filter blowers	Information not provided.
Combiner	Information not provided.
Coaxial Switch	Information not provided.
Plumbing Supplies	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	\$293,100.00		\$96,869.25	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$275,000.00	N/A	\$93,906.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	\$2,963.25	N/A
Sub-total	\$308,530.00	\$293,100.00	N/A	\$96,869.25	N/A
Total for all systems	\$1,853,039.41	\$1,652,587.55	N/A	\$431,128.37	N/A

Components

Actual Information	
Description	File Name
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<div> <div>Component Description:</div> <div>Antenna, wedding cake, feed-thru (Item 1,2,3) (45% down)</div> <div>Amount:</div> <div>\$93,906.00</div> </div>
Sweep test of existing antenna	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<div> <div>Component Description:</div> <div>Elbow complex (Item 4) (45% down)</div> <div>Amount:</div> <div>\$2,963.25</div> </div> <div> <div>Component Description:</div> <div>N/A</div> <div>Amount:</div> <div>N/A</div> </div>

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	\$157,000.00		\$70,279.61	
Rigid Transmission Line - copper, 6 1/8"	\$216,140.00	\$157,000.00	N/A	\$70,279.61	N/A
Auxiliary Transmission Line	\$118,170.00	\$112,320.00		\$0.00	
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.	N/A	N/A
Sub-total	\$334,310.00	\$269,320.00	N/A	\$70,279.61	N/A
Total for all systems	\$1,853,039.41	\$1,652,587.55	N/A	\$431,128.37	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8"	<div>Component Description: Transmission Line, hangers, field service (45% down)</div> <div>Amount: \$70,279.61</div>
Rigid Transmission Line - copper, 6 1/8"	Information not provided.

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	\$210,500.00	\$200,000.00		\$0.00	
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	This is half the cost. The other half is on WSOC- TV's Form 399.	N/A	N/A
Sub-total	\$210,500.00	\$200,000.00	N/A	\$0.00	N/A
Total for all systems	\$1,853,039.41	\$1,652,587.55	N/A	\$431,128.37	N/A

Components

Information not provided.

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
Project management of the transition	\$3,950.00	\$3,750.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	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), 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, License to Cover Application	\$1,580.00	\$1,500.00	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 engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	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
Sub-total	\$139,445.00	\$140,550.00	N/A	\$17,828.40	N/A
Total for all systems	\$1,853,039.41	\$1,652,587.55	N/A	\$431,128.37	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>Component Description: Full payment of invoice for legal services for WAXN-TV repack.</p> <p>Amount: \$2,549.70</p>
Project management of the transition	Information not provided.
Prepare and or review reimbursement form	Information not provided.
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), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Perform engineering study for new channel assignment and antenna development	<p>Component Description: Requesting 50% for WAXN...I filed for the other 50% under WSOC</p> <p>Amount: \$10,523.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Attorney Fees - Prepare and
File FCC Form 2100 (main),
Construction Permit
Application

Component Description:

Full payment of
invoice fro legal
services for
WAXN-TV repack.
\$1,933.50

Amount:

Component Description:

Full payment of
invoice for legal
services for
WAXN-TV repack.
\$308.10

Amount:

Component Description:

Full payment of
invoice for legal
services for
WAXN-TV repack
\$1,392.10

Amount:

Component Description:

Full payment of
invoice for legal
services for
WAXN-TV repack.
\$74.80

Amount:

Component Description:

Full payment for
invoice fro legal
services for
WAXN-TV repack.
\$1,047.20

Amount:

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	\$22,595.00	\$21,995.00		\$0.00	
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$0.00</i>	\$0.00	N/A	\$0.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	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
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
Equipment Storage	<i>\$2,600.00</i>	\$2,600.00	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

MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Sub-total	\$22,595.00	\$21,995.00	N/A	\$0.00	N/A
Total for all systems	\$1,853,039.41	\$1,652,587.55	N/A	\$431,128.37	N/A

Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$1,853,039.41	\$1,652,587.55	\$431,128.37

Reimbursement Status	Question	Response
	The facility has ceased operating on its pre-auction channel.	No
	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"> 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*

08/01/2018

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

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Ted Hand <i>Director of Engineering /Operations</i></p> <p>08/01/2018</p>

Attachments