



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **69114** | Service: **DTV** | Call **WUNE-TV** | Channel: **36 (UHF)** |  
ID: | Sign:  
File **0000027167**  
Number:  
FRN: **0001910066** | Date **11/18**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>University of North Carolina</b>	PO Box 27709 RESEARCH	+1 (919)	fcc_notice@unctv. org	Government Entity
Doing Business As:	TRIANGLE	549-		
UNIVERSITY OF	PARK, NC 27709	7000		
NORTH CAROLINA	United States			

## 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>Donald Smith , Smith .</b>	Donald Smith	+1 (919)	dsmith@unctv.
<i>Director of New Technologies</i>	10 T.W. Alexander	549-7025	org
<i>Compliance &amp; Planning</i>	Drive		
<i>University of North Carolina</i>	Research Triangle		
<i>Center for Public Television</i>	Park, NC 27709		
	United States		

**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.	No
Briefly describe transition plan	The transition plan is to construct an interim facility at the existing site. The interim facility would be used when operation on the new channel begins. After that the necessary changes would be made to the primary transmission system.

**Transmitters**

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

**Auxiliary  
Transmitter****Add 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	LU2500ATD
	Year	2008
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.5 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	The transmitter support company has indicated that they may be able to provide re-channelization proposals for some models. At this time they have failed to provide a proposal. See attachment for further details.

**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	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
<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**  
Information not provided.

**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	DHD45P2
	Year	2001
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	10.5 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?	Yes
	Manufacturer	
	Model	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	44 kW
	Justification for New Transmitter	The transmitter manufacturer has indicated that components necessary to modify the transmitter for operation on its new channel are no longer available and it will not be able to provide re-channelization services for the transmitter. See attached letter

**Primary  
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	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
<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

**Primary**

**Transmitter**

**Other Transmitter Cost Not Listed**

Information not provided.



**Antennas**

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

**Auxiliary  
Antenna****Add Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup to Main
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this 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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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) .....	63.0 kW

Manufacturer	
Model	ATW8G4- HSS-17
Year	1986

## Auxiliary Antenna

### New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Interim Facility and Eventual Auxiliary
	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	Side Mount
	Antenna position in stack	Not in Stack
	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)	1000.0 kW

Manufacturer	
Model	SAA20-ATW_C2-G500-ES6R-36
Year	2019
Justification for New Antenna	The antenna can only operate on channel 17. The replacement antenna will be initially used as part of the interim facility during the transition. Following the transition it will become a permanent auxiliary antenna.

## Auxiliary 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?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Auxiliary Antenna

### Other Antenna Cost Not Listed

Information not provided.

**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	Not in Stack
	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)	100.0 kW

Manufacturer	
Model	ATW19HS5-ETC2-1
Year	1994



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	Not in Stack
	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) .....	1000.0 kW
	Manufacturer	

Model	SAA23- ATW_C2- E500-ET6R- 36
Year	2019
Justification for New Antenna	The antenna is a single channel slotted pylon style antenna. It cannot operate on a channel other than what it was designed, channel 17. The only viable option is to replace the antenna.

## 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

## Add 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 this transmission currently shared with any other 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	210 feet per run

**Auxiliary**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Auxiliary (Backup)
	Description of Use	Interim and 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	210 feet per run
	Justification for New Transmission Line	The existing transmission line has a stick length of 19-1/2 feet, a length that is inconsistent with operations on channel 36. The only option is to replace the transmission line.

Auxiliary	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	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	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	1014575
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	36° 03' 50.0" N-
	Longitude (NAD83)	081° 50' 32.0" W-
	Overall Structure Height	449.14 feet
	Support Structure Height	400.26 feet
	Ground Elevation Above Mean Sea Level (AMSL)	4606.24 feet



	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	UNIVERSITY OF NORTH CAROLINA
	Date Constructed	01/01/1990

**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 Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	120
	Explanation	The transmission site is owned by the State of North Carolina. The state requires a project designer to submit plans for the project for review and approval. this is very similar to the local permitting process but done on the state level
<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	Yes

	Quantity	1
	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	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No

	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Additional Legal Expenses	Legal expenses for non-catalog advice and review, including transition status reports and other miscellaneous legal needs.
Tower Structural Analysis	Required by State Building Code

## 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	No
	FCC License to Cover Application	No
	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?	No
	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
Antenna Main Other	Fine Matchers & Elbows
Electrical Construction	Construction and modifications to the electrical infrastructure of the existing building as required to support the new transmitters
General Construction	General construction and administrative costs necessary for the installation of transmitters in an existing building.
Antenna Aux Other	Ice Protect, Fine Match, Elbows
Mechanical Construction	Construction and modifications to the HVAC infrastructure of the existing building as required to support the new transmitters
Network Switch	Cisco 52-port Gigabit Switch connects devices together on computer network by using packet switching to receive, process, and forward data to destination device

## 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-72</b>	<b>\$1,498,550.00</b>	<b>\$471,958.60</b>		<b>\$298,811.19</b>	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$470,000.00	The estimated cost is for the approved GatesAir ULXTE-20 transmitter. The transmitter purchase has been upgraded to a ULXTE-72. It is understood that the station is responsible for the upgrade portion of the purchase price.	\$296,852.59	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$1,958.60	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$1,958.60	N/A

<b>Auxiliary Transmitter ULXTE-10</b>	<b>\$273,500.00</b>	<b>\$260,000.00</b>		<b>\$164,623.82</b>	
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$260,000.00	N/A	\$164,623.82	N/A
<b>Sub-total</b>	<b>\$1,772,050.00</b>	<b>\$731,958.60</b>	<b>N/A</b>	<b>\$463,435.01</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$3,172,451.18</b>	<b>\$2,349,911.01</b>	<b>N/A</b>	<b>\$1,895,973.18</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<p><b>Component Description:</b> Primary Transmitter See attachment pg. 1 for payment details. Please note funding obligation column. Immediate Due Date on invoice adjusted to vendor terms of 60 days. PO for multiple sites.</p> <p><b>Amount:</b> \$103,459.37</p> <p><b>Component Description:</b> Final Invoice Main Transmitter See attach pg 1 for payment details, note pay obligation column See attach pg 3 for quote 87466</p> <p><b>Amount:</b> \$54,106.63</p>



	<table> <tr> <td data-bbox="711 98 1145 672"><b>Component Description:</b></td><td data-bbox="1145 98 1428 672">Primary Transmitter See attachment pg. 2 for payment details. Please note funding column. Immediate Due Date on invoice adjusted to vendor terms of 60 days. PO for multiple sites.</td></tr> <tr> <td data-bbox="711 672 1145 739"><b>Amount:</b></td><td data-bbox="1145 672 1428 739">\$103,459.37</td></tr> <tr> <td data-bbox="711 739 1145 1288"><b>Component Description:</b></td><td data-bbox="1145 739 1428 1288">50% FCC Portion Transmitter &amp; Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 line item. Purchase Order for all 11 eleven sites.</td></tr> <tr> <td data-bbox="711 1288 1145 1384"><b>Amount:</b></td><td data-bbox="1145 1288 1428 1384">\$139,286.59</td></tr> </table>	<b>Component Description:</b>	Primary Transmitter See attachment pg. 2 for payment details. Please note funding column. Immediate Due Date on invoice adjusted to vendor terms of 60 days. PO for multiple sites.	<b>Amount:</b>	\$103,459.37	<b>Component Description:</b>	50% FCC Portion Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 line item. Purchase Order for all 11 eleven sites.	<b>Amount:</b>	\$139,286.59
<b>Component Description:</b>	Primary Transmitter See attachment pg. 2 for payment details. Please note funding column. Immediate Due Date on invoice adjusted to vendor terms of 60 days. PO for multiple sites.								
<b>Amount:</b>	\$103,459.37								
<b>Component Description:</b>	50% FCC Portion Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 line item. Purchase Order for all 11 eleven sites.								
<b>Amount:</b>	\$139,286.59								
Transformer 3 phase/480v - 150 KVA	<table> <tr> <td data-bbox="711 1384 1145 1657"><b>Component Description:</b></td><td data-bbox="1145 1384 1428 1657">FCC Portion 50% Transformer, see Quote Line 17. Purchase Order for all 11 sites.</td></tr> <tr> <td data-bbox="711 1657 1145 1756"><b>Amount:</b></td><td data-bbox="1145 1657 1428 1756">\$1,958.60</td></tr> </table>	<b>Component Description:</b>	FCC Portion 50% Transformer, see Quote Line 17. Purchase Order for all 11 sites.	<b>Amount:</b>	\$1,958.60				
<b>Component Description:</b>	FCC Portion 50% Transformer, see Quote Line 17. Purchase Order for all 11 sites.								
<b>Amount:</b>	\$1,958.60								

UHF - Liquid Cooled Solid  
State Transmitter 4.9 . 6.5  
kW

**Component Description:**

Final Aux  
Transmitter See  
attach pg 1 for  
payment details  
See attach pg 3  
for quote 87469

**Amount:**

\$22,633.28

**Component Description:**

Auxilliary  
Transmitter See  
attachment pg. 2  
for payment  
details. Immediate  
Due Date on  
invoice adjusted to  
vendor terms of  
60 days. PO for  
multiple sites.

**Amount:**

\$56,442.56

**Component Description:**

50% Aux  
Transmitter &  
Installation.  
Installation  
included w  
/Transmitter on  
Form 399.  
Purchase Order  
for all 11 sites.

**Amount:**

\$85,547.98

## 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 SAA23-ATW_C2-E500-ET6R-36</b>	<b>\$308,530.00</b>	<b>\$202,428.00</b>		<b>\$190,728.00</b>	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$17,910.00	See RFS Invoice 27011624	\$17,910.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$172,818.00	See RFS Antenna Change Narrative with Quotes	\$172,818.00	N/A
<b>Auxiliary Antenna SAA20-ATW_C2-G500-ES6R-36</b>	<b>\$170,639.50</b>	<b>\$179,809.50</b>		<b>\$123,199.50</b>	

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	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	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$17,910.00	See Invoice 27011624	\$0.00	Budget will be revised
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<b>\$123,199.50</b>	\$123,199.50	See attached RFS Antenna Change Narrative with Quotes	\$123,199.50	Budget will be increased for PreSweep
<b>Sub-total</b>	<b>\$479,169.50</b>	<b>\$382,237.50</b>	<b>N/A</b>	<b>\$313,927.50</b>	<b>N/A</b>

<b>Total for all systems</b>	\$3,172,451.18	\$2,349,911.01	N/A	\$1,895,973.18	N/A
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## Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
Sweep test of existing antenna	<p><b>Component Description:</b> Main/Primary Pre Sweep See quote attach pg 4 Item 000030</p> <p><b>Amount:</b> \$17,910.00</p>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p><b>Component Description:</b> 50% Main Antenna Attach pg 1 - Invoice Attach pg 2 - Payment Details</p> <p><b>Amount:</b> \$86,409.00</p> <p><b>Component Description:</b> 50% Primary Antenna included in Inv &amp; PO Line 5. Invoice &amp; Purchase Order are for 10 sites.</p> <p><b>Amount:</b> \$86,409.00</p>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.



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
Auxiliary Transmission Line	\$42,420.00	\$41,261.59		\$41,261.59	
Rigid Transmission Line - copper, 6 1/8"	\$42,420.00	\$41,261.59	See attached RFS Antenna Change Narrative with Pricing	\$41,261.59	N/A
Sub-total	\$42,420.00	\$41,261.59	N/A	\$41,261.59	N/A
Total for all systems	\$3,172,451.18	\$2,349,911.01	N/A	\$1,895,973.18	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line -  
copper, 6 1/8"

**Component Description:**

50% Auxilliary  
Transmission Line,  
2nd item on  
invoice. Initial 50%  
paid on invoice #  
27011328. 2nd  
item on invoice  
paid from separate  
399 category-Aux  
Antenna. Note  
corrected invoice  
total to \$80,230.54

**Amount:**

\$20,630.79

**Component Description:**

50% Auxilliary  
Transmission Line  
included in Inv &  
PO Line 5. Invoice  
& Purchase Order  
are for 10 sites.

**Amount:**

\$20,630.80



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	\$84,200.00	\$292,927.00		\$292,926.89	
Short Tower (less than 500')	\$84,200.00	\$292,927.00	See attached RFS Antenna Change Narrative with Pricing See RFS Invoice 27011697 with quotes for additional tower work to safely remove old primary /main antenna.	\$292,926.89	N/A
Sub-total	\$84,200.00	\$292,927.00	N/A	\$292,926.89	N/A
Total for all systems	\$3,172,451.18	\$2,349,911.01	N/A	\$1,895,973.18	N/A

Components

Actual Information Description	File Name
Short Tower (less than 500')	

<b>Component Description:</b>	Additional tower work required to safely remove the old main/primary antenna from tower. See attached invoice and quotes.
<b>Amount:</b>	\$59,459.80

<b>Component Description:</b>	50% Main install Attach pg 1 - invoice Attach pg 2 - payment details
<b>Amount:</b>	\$75,169.93

<b>Component Description:</b>	50% Primary /Short Tower Installation for Auxilliary Antenna included in Inv & PO Line 6. Invoice & Purchase Order are for 10 sites.
<b>Amount:</b>	\$41,563.62

<b>Component Description:</b>	50% Primary /Short Tower Installation for Auxilliary Antenna Initial 50% paid on invoice 27011328
<b>Amount:</b>	\$41,563.61

**Component Description:**

50% Primary  
/Short Tower  
Installation for  
Primary Antenna  
included in Inv &  
PO Line 6.  
Invoice &  
Purchase Order  
are for 10 sites.

**Amount:**

\$75,169.93

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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	\$93,275.00	\$206,239.64		\$143,267.31	
Tower Structural Analysis	<i>\$7,000.00</i>	\$7,000.00	N/A	\$1,500.00	N/A
Additional Legal Expenses	<i>\$24,500.00</i>	\$24,500.00	Preliminary estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs.	\$4,099.91	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$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

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	\$725.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,687.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$662.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$102.76	N/A

Project management of the transition	\$18,960.00	\$134,489.64	See attachment "WUNE Program Designer - Manager Narrative" for details on estimated cost Amendment #3 attached to Invoice 157570 Amendment #4 attached to Invoice 160595	\$134,489.64	N/A
<b>Sub-total</b>	\$93,275.00	\$206,239.64	N/A	\$143,267.31	N/A
<b>Total for all systems</b>	\$3,172,451.18	\$2,349,911.01	N/A	\$1,895,973.18	N/A

## Components

Actual Information	
Description	File Name
Tower Structural Analysis	<p><b>Component Description:</b> Outside Professional Services Tower Structural Analysis See attachment page 7 for schedule of services.</p> <p><b>Amount:</b> \$1,500.00</p>
Additional Legal Expenses	

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 1617.10/11 equal 147.01 as outlined on page 1 of invoice.
<b>Amount:</b>	\$147.01

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 168.50/11 equal 15.31 as outlined on page 1 of invoice.
<b>Amount:</b>	\$15.31

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 350.00/11 equal 31.82 as outlined on page 1 of invoice.
<b>Amount:</b>	\$31.82



<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 368.00/11 equal 33.46 as outlined on page 1 of invoice.
<b>Amount:</b>	\$33.46

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$35.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$70.00/11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$6.37

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$245.00/11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$22.27

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$70.00

<b>Component Description:</b>	Outside Professional Services Additional Legal ExpensesLegal services benefit entire FCC Repack project across all 11 Call Signs /Facility IDs, 959.50 /11 equal 87.22 as outlined on page 1 of invoice.
<b>Amount:</b>	\$87.22

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$182.50

<b>Component Description:</b>	Outside Professional Services Additional Legal Expense
<b>Amount:</b>	\$88.50

<b>Component Description:</b>	Outside Prof Svcs Additional Legal Expenses
<b>Amount:</b>	\$73.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$70.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$70.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$505.50

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 572.90/11 equal 52.08 as outlined on page 1 of invoice.
<b>Amount:</b>	\$52.08

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal 315.63 as outlined on page 1 of invoice.
<b>Amount:</b>	\$315.63

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$35.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$539.20

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses 6 /05 thru 6/24 1.60 times 365.00
<b>Amount:</b>	\$584.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$33.70

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 315.00/11 equal 28.64 as outlined on page 1 of invoice.
<b>Amount:</b>	\$28.64

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$35.00

**Component Description:**

Outside  
Professional  
Services Additional  
Legal Expense  
Legal services  
benefit entire FCC  
Repack project  
across all 11 Call  
Signs/Facility IDs,  
67.40/11 equal  
6.13 as outlined on  
page 1 of invoice.

**Amount:**

\$6.13

**Component Description:**

Outside  
Professional  
Services Additional  
Legal Expenses  
Legal services  
benefit entire FCC  
Repack project  
across all 11 Call  
Signs/Facility IDs,  
402.00/11 equal  
36.55 as outlined  
on page 1 of  
invoice.

**Amount:**

\$36.55

**Component Description:**

Outside  
Professional  
Services Additional  
Legal Expenses

**Amount:**

\$245.40

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2594.40/11 equal 235.85 as outlined on page 1 of invoice.
<b>Amount:</b>	\$235.85

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$35.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$105.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 175.00/11 equal 15.90 as outlined on page 1 of invoice.
<b>Amount:</b>	\$15.90

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$67.40

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$67.40

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$109.50

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2059.90/11 equal 187.27 as outlined on page 1 of invoice.
<b>Amount:</b>	\$187.27



<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across 10 of 11 Call Signs/Facility IDs, 3378.88/10 equal 337.89 as outlined on page 1 of invoice.
<b>Amount:</b>	\$337.89

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$69.55

<b>Component Description:</b>	Outside Prof Svcs. Additional Legal Expenses
<b>Amount:</b>	\$109.50

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 323.00/11 equal 29.36 as outlined on page 1 of invoice.
<b>Amount:</b>	\$29.36

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	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	<div> <div><b>Component Description:</b></div> <div>Outside Professional Services Attorney Fees CP Aux Antenna 6/28 .30 times 365.00</div> </div> <div> <div><b>Amount:</b></div> <div>\$109.50</div> </div>
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
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.

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Outside Prof Svc RF Consult Engineer Construct Permit Aux \$725.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Main/Primary \$1,687.50</p>
Perform engineering study for new channel assignment and antenna development	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Outside Professional Services Engineering Study New Channel Assignment Antenna Development \$662.50</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Prepare and or review reimbursement form	<div> <div>Component Description:</div> <div> Outside Professional Services Prepare Reimbursement Wages &amp; Employer Portion Social Security for Temp Employee. Tasks applicable to all 11 repack sites, amount requested reflects portion payable per site. </div> </div> <div> <div>Amount:</div> <div>\$102.76</div> </div>
Project management of the transition	<div> <div>Component Description:</div> <div> Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary. </div> </div> <div> <div>Amount:</div> <div>\$12,358.80</div> </div>
	<div> <div>Component Description:</div> <div> Outside Prof Svcs Project Mgmt Attach pg 1-2 Invoice Attach pg 3- 19 Contracts Attach pg 10-30 Project Summary </div> </div> <div> <div>Amount:</div> <div>\$3,540.00</div> </div>

<b>Component Description:</b>	Outside Prof Svcs Proj Mgmt of Transition See attach pg. 2-5 for Contract/Invoice Summary. Amendment #3 on pg. 6. 12,800 divided by 11 equal 1,164.64 for 7 sites, 1,164.63 for 4 sites. PO/Contract for all eleven transmitter sites.
<b>Amount:</b>	\$4,529.64

<b>Component Description:</b>	Outside Proj Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 3-6 for Contract /Invoice summary
<b>Amount:</b>	\$1,552.80

<b>Component Description:</b>	Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary
<b>Amount:</b>	\$3,267.00

**Component Description:**

Outside  
Professional  
Services Project  
Management of  
Transition See  
attachment pg 3-5  
for Contract/Invoice  
Summary. PO  
/Contract for all  
eleven transmitter  
sites.

**Amount:**

\$5,303.94

**Component Description:**

Outside  
Professional  
Services Project  
Management of  
Transition See  
attachment pg 3-5  
for Contract/Invoice  
Summary.

**Amount:**

\$5,303.94

**Component Description:**

Outside  
Professional  
Services Project  
Management of  
Transition See  
attachment pg. 3-6  
for Contract/Invoice  
Summary. PO  
/Contract for all  
eleven transmitter  
sites.

**Amount:**

\$3,987.42

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
<b>Amount:</b>	\$53,069.40

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg. 3-6 for Contract/Invoice Summary. PO /Contract for all eleven transmitter sites.
<b>Amount:</b>	\$2,437.80

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
<b>Amount:</b>	\$4,438.02

<b>Component Description:</b>	Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary
<b>Amount:</b>	\$3,267.00

<b>Component Description:</b>	Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary
<b>Amount:</b>	\$9,022.50

<b>Component Description:</b>	Outside Professional Services Project Management
<b>Amount:</b>	\$9,022.50

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg 3-6 for Contract/Invoice Summary. PO /Contract for all eleven transmitter sites.
<b>Amount:</b>	\$10,607.88

<b>Component Description:</b>	Outside Prof Services Project Management Contract/Invoice Summary for 11 sites see attach pgs 5-15.
<b>Amount:</b>	\$5,100.00



**Component Description:**

Outside  
Professional  
Services Project  
Management See  
attachment pg. 3 &  
4 for Project  
Summary

**Amount:**

\$6,703.50

## 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>\$701,336.68</b>	<b>\$695,286.68</b>		<b>\$641,154.88</b>	
Network Switch	<i>\$1,048.00</i>	\$1,048.00	See attachment - WUNE Network Switch Justification	\$1,047.97	N/A
Mechanical Construction	<i>\$241,520.00</i>	\$241,520.00	See WUNE GC Budget attachment for details	\$240,720.00	N/A
Antenna Aux Other	<i>\$22,629.00</i>	\$22,629.00	See RFS Invoice 26011694 w /quote 20082799	\$22,628.54	N/A
General Construction	<i>\$161,869.85</i>	\$161,869.85	See WUNE GC Budget attachment See Heartland 18865WUNE-9	\$161,869.85	Budget Revision
Electrical Construction	<i>\$178,201.83</i>	\$178,201.83	See WUNE GC Budget attachment for details See Heartland 18865WUNE-9	\$178,201.64	N/A

Antenna Main Other	<b>\$5,000.00</b>	\$5,000.00	See RFS Invoice 27011695 w /quote 20082808	\$4,908.04	N/A
MVPD Notification of Channel Change	<b>\$5,500.00</b>	\$5,500.00	Preliminary estimate of services	\$463.64	N/A
Develop and air announcement of upcoming channel change	<b>\$2,000.00</b>	\$2,000.00	Preliminary estimate	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$62,018.00</b>	\$62,018.00	See attached quotes for disposal of both transmitters	\$27,565.20	N/A
Equipment Delivery and Handling Charges	<b>\$10,000.00</b>	\$10,000.00	Preliminary estimate	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,500.00	Preliminary estimate of service	\$3,750.00	N/A
<b>Sub-total</b>	\$701,336.68	\$695,286.68	N/A	\$641,154.88	N/A
<b>Total for all systems</b>	\$3,172,451.18	\$2,349,911.01	N/A	\$1,895,973.18	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Network Switch	<div> <div>Component Description:</div> <div>Other Expenses Network Switch 11 Switches for total of 11,527.67 equals 1,047.97 per transmitter site.</div> </div> <div> <div>Amount:</div> <div>\$1,047.97</div> </div>
Mechanical Construction	<div> <div>Component Description:</div> <div>Other Expenses Mechanical Contract See attach pg. 1 for payment details including payment responsibility, PO summary for 5 sites on attach last page.</div> </div> <div> <div>Amount:</div> <div>\$226,159.85</div> </div>
	<div> <div>Component Description:</div> <div>Other Expenses Mechanical Contract Payment details begin on attachment pg 17. PO for multiple sites.</div> </div> <div> <div>Amount:</div> <div>\$2,742.65</div> </div>
	<div> <div>Component Description:</div> <div>Other Expenses Mechanical Contract Attachment pg 1 specifics of payment Attachment pg 2-8 Vendor supplied invoice Attachment pg 9 begins PO Summary &amp; associated documentation. PO for multiple sites.</div> </div> <div> <div>Amount:</div> <div>(\$760.00)</div> </div>

	<div> <div> <b>Component Description:</b> </div> <div> Other Expenses  Mechanical  Contract See  attach pg. 1 for  payment details  including payment  responsibility, PO  summary for 5 sites  on attach last page. </div> </div> <div> <b>Amount:</b> </div> <div> \$541.50 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Mechanical  Contract See  attach pg 1 for  invoice details, pay  responsibility,  project recon. </div> </div> <div> <b>Amount:</b> </div> <div> \$12,036.00 </div>
Antenna Aux Other	<div> <div> <b>Component Description:</b> </div> <div> Aux Ant Ice  Protect, Fine  Matchers, Elbows  Attach pg 1 -  invoice Attach pg 2  - payment details  Attach pg 3-6 -  quote </div> </div> <div> <b>Amount:</b> </div> <div> \$22,628.54 </div>
General Construction	<div> <div> <b>Component Description:</b> </div> <div> Other Expenses  General Contract  See attach pg. 1 for  payment details  including payment  responsibility. PO  summary for 5 sites  on attach last page. </div> </div> <div> <b>Amount:</b> </div> <div> \$28,035.95 </div>

<b>Component Description:</b>	Other Expenses General Contract Payment details begin on attachment pg 17. PO for multiple sites.
<b>Amount:</b>	\$17,575.00

<b>Component Description:</b>	Other Expenses General Contract Attachment pg 1 specifics of payment Attachment pg 2-8 Vendor supplied invoice Attachment pg 9 begins PO Summary & associated documentation. PO for multiple sites.
<b>Amount:</b>	\$7,493.60

<b>Component Description:</b>	General Contract FCC Portion of Invoice PO for multiple sites Refer to attach pg. 1 for outline of costs.
<b>Amount:</b>	\$22,135.00

<b>Component Description:</b>	Other Expenses General Contract Attachment pg 1 specifics of payment Attachment pg 2-8 Vendor supplied invoice Attachment pg 9 begins PO Summary & associated documentation. PO for multiple sites.
<b>Amount:</b>	\$28,148.94

<b>Component Description:</b>	General Contract See attach pg 1 for invoice details, pay responsibility, project recon
<b>Amount:</b>	\$8,093.48

<b>Component Description:</b>	Other Expenses General Contract See attach pg. 1 for payment details including payment responsibility, PO summary for 5 sites on attach last page.
<b>Amount:</b>	\$4,275.00

<b>Component Description:</b>	General Contract FCC Portion of Invoice PO for Multiple Sites Refer to attach pg. 1 for outline of costs.
<b>Amount:</b>	\$39,216.00

	<p><b>Component Description:</b></p> <p>Other Expenses General Contract Payment details begin on attachment pg 16. PO for multiple sites.</p> <p><b>Amount:</b></p> <p>\$6,896.88</p>
Electrical Construction	<p><b>Component Description:</b></p> <p>Other Expenses Electrical Contract See attach pg. 1 for payment details including payment responsibility, PO summary for 5 sites on attach last page.</p> <p><b>Amount:</b></p> <p>\$73,479.11</p> <p><b>Component Description:</b></p> <p>Other Expenses Electrical Contract Attachment pg 1 specifics of payment Attachment pg 2-8 Vendor supplied invoice Attachment pg 9 begins PO Summary &amp; associated documentation. PO for multiple sites.</p> <p><b>Amount:</b></p> <p>\$19,869.25</p> <p><b>Component Description:</b></p> <p>Electrical Contract FCC Portion of Invoice PO for Multiple Sites Refer to attach pg. 1 for outline of costs</p> <p><b>Amount:</b></p> <p>\$37,145.00</p>



	<table> <tr> <td data-bbox="707 159 1015 192"><b>Component Description:</b></td><td data-bbox="1147 159 1374 667">           Other Expenses            Electrical Contract            Attachment pg 1            specifics of            payment            Attachment pg 2-8            Vendor supplied            invoice Attachment            pg 9 begins PO            Summary &amp;            associated            documentation. PO            for multiple sites.         </td></tr> <tr> <td data-bbox="707 678 815 712"><b>Amount:</b></td><td data-bbox="1147 678 1278 712">\$24,785.50</td></tr> <tr> <td data-bbox="707 819 1015 853"><b>Component Description:</b></td><td data-bbox="1147 819 1362 1084">           Other Expenses            Electrical Contract            Payment details            begin on            attachment pg 16.            PO for multiple            sites.         </td></tr> <tr> <td data-bbox="707 1095 815 1128"><b>Amount:</b></td><td data-bbox="1147 1095 1278 1128">\$14,012.69</td></tr> <tr> <td data-bbox="707 1236 1015 1270"><b>Component Description:</b></td><td data-bbox="1147 1236 1370 1424">           Electrical Contract            See attach pg 1 for            invoice details, pay            responsibility,            project recon.         </td></tr> <tr> <td data-bbox="707 1435 815 1469"><b>Amount:</b></td><td data-bbox="1147 1435 1265 1469">\$8,910.09</td></tr> </table>	<b>Component Description:</b>	Other Expenses Electrical Contract Attachment pg 1 specifics of payment Attachment pg 2-8 Vendor supplied invoice Attachment pg 9 begins PO Summary & associated documentation. PO for multiple sites.	<b>Amount:</b>	\$24,785.50	<b>Component Description:</b>	Other Expenses Electrical Contract Payment details begin on attachment pg 16. PO for multiple sites.	<b>Amount:</b>	\$14,012.69	<b>Component Description:</b>	Electrical Contract See attach pg 1 for invoice details, pay responsibility, project recon.	<b>Amount:</b>	\$8,910.09
<b>Component Description:</b>	Other Expenses Electrical Contract Attachment pg 1 specifics of payment Attachment pg 2-8 Vendor supplied invoice Attachment pg 9 begins PO Summary & associated documentation. PO for multiple sites.												
<b>Amount:</b>	\$24,785.50												
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<b>Component Description:</b>	Electrical Contract See attach pg 1 for invoice details, pay responsibility, project recon.												
<b>Amount:</b>	\$8,910.09												
Antenna Main Other	<table> <tr> <td data-bbox="707 1608 1015 1641"><b>Component Description:</b></td><td data-bbox="1147 1608 1374 1872">           Main Antenna Fine            Matchers &amp; Elbows            Attach pg 1 -            invoice Attach pg 2            - payment details            attach pg 3-5 -            quote         </td></tr> <tr> <td data-bbox="707 1883 815 1917"><b>Amount:</b></td><td data-bbox="1147 1883 1265 1917">\$4,908.04</td></tr> </table>	<b>Component Description:</b>	Main Antenna Fine Matchers & Elbows Attach pg 1 - invoice Attach pg 2 - payment details attach pg 3-5 - quote	<b>Amount:</b>	\$4,908.04								
<b>Component Description:</b>	Main Antenna Fine Matchers & Elbows Attach pg 1 - invoice Attach pg 2 - payment details attach pg 3-5 - quote												
<b>Amount:</b>	\$4,908.04												

MVPD Notification of Channel Change	<p><b>Component Description:</b> MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each</p> <p><b>Amount:</b> \$463.64</p>
Develop and air announcement of upcoming channel change	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b> Final invoice Main Disposal See attach pg 1 for payment details</p> <p><b>Amount:</b> \$13,782.60</p> <p><b>Component Description:</b> 50% Remove Exist Main Transmitter. Purchase Order for all 11 sites.</p> <p><b>Amount:</b> \$13,782.60</p>
Equipment Delivery and Handling Charges	Information not provided.
DTV Medical Facility Notification	<p><b>Component Description:</b> Medical Notification, PO /Quote for multiple Call/Locations.</p> <p><b>Amount:</b> \$3,750.00</p>

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$3,172,451.18	\$2,349,911.01
			\$1,895,973.18

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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.

<p>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.</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>Donald Smith</b>  <i>Director of New Technologies Compliance &amp; Planning</i></p> <p>11/18/2020</p>

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>Robert Levin</b>  <i>Director of Finance and Administration</i></p> <p>11/18/2020</p>

Certification	Section	Question	Response
	Submission of Final Allocation or Accounting Information 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 and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>2. 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>	

3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
4. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
6. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Robert  
Levin**  
*Director of  
Finance &  
Administration*

11/18/2020

**Attachments**