



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **69397** | Service: **DTV** | Call **WUNP-TV** | Channel: **27 (UHF)** |  
ID: | Sign:  
File **0000026701**  
Number:  
FRN: **0001910066** | Date **11/19**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>University of North Carolina</b>	PO Box 14900 Research	+1 (919)	fcc_notice@unctv. org	Government Entity
Doing Business As:	Triangle Park,	549-		
University of North Carolina	NC 27709 United States	7000		

## 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</b>	Donald Smith	+1 (919)	dsmith@unctv.
<i>Director of New Technologies</i>	10 T.W. Alexander	549-7000	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	Aux
	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

**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-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	12.9 kW
	Justification for New Transmitter	Transmitter power capacity has been adjusted to the pre-filter output power at the request of the TV Broadcast Fund Administrator

**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	DCX-2
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 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-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38 kW
	Justification for New Transmitter	At the request of the FCC fund administrator the power capacity of the transmitter has been modified from post filter output level to pre- filter output level.

**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	Aux
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	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)	205.7 kW

Manufacturer	
Model	ATW24HS3- HSO-36S
Year	2008

## 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?	No
	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)	312.0 kW

Manufacturer	
Model	SAA22-O3-G200-ES4R-27
Year	2019
Justification for New Antenna	The antenna can only operate on channel 36. 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?	
	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	4 1/16 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?	No
	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) .....	125.0 kW

Manufacturer	
Model	TFU-15JTH /VP-R O4
Year	2010



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?	No
	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) .....	248.0 kW
	Manufacturer	

Model	SAA14-O4A-G300-ET5R-27
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 36. 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**      **Add Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Interim and Eventual Auxiliary
	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	800 feet per run

Auxiliary  
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Interim and Eventual Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	800 feet per run

	Justification for New Transmission Line	Constructing a viable interim facility with meaningful coverage area requires a system with increased power handling capability. This is best addressed by replacing the transmission line with higher power handling capability. See transition plan narrative
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**Auxiliary Transmission Line**      **Other Transmission Line Expenses Not Listed**  
Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	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	1014576
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 17' 29.2" N-
	Longitude (NAD83)	077° 50' 09.4" W-
	Overall Structure Height	1143.03 feet
	Support Structure Height	1112.19 feet
	Ground Elevation Above Mean Sea Level (AMSL)	284.12 feet



	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	UNIVERSITY OF NORTH CAROLINA
	Date Constructed	05/13/2011

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	N/A
<b>Helicopter Services Required</b>	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	Because the transmission site is owned by the State of North Carolina, it is subject to various state construction project rules. One rule is the hiring of a designer to create submittals for project review and approval by the state.
<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
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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?	No
	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
<b>Network Switch</b>	Cisco 52-port Gigabit Switch connects devices together on computer network by using packet switching to receive, process, and forward data to destination device
<b>Electrical Construction</b>	Construction and modifications to the electrical infrastructure of the existing building as required to support the new transmitters
<b>General Construction</b>	General construction and administrative costs necessary for the installation of transmitters in the existing building.
<b>Mechanical Construction</b>	Construction and modifications to the HVAC infrastructure of the existing building as required to support the new transmitters

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-60	\$2,419,635.35	\$1,012,695.76		\$923,997.76	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$88,698.00	The amount entered is the outstanding balance for the transmitter based on previously submitted quotes.	\$88,697.62	Budget Revision
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$2,912.41	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$2,912.41	N/A

UHF - Liquid Cooled Solid State Transmitter 34 kW	<b>\$921,085.35</b>	\$921,085.35	***System Notice: Estimate adjusted and locked because line has been superseded. ***A quote from Comark for a replacement IOT transmitter is attached. That quote is substantially higher than the catalog pricing amount for the proposed solid state transmitter. The proposed transmitter should be eligible for full reimbursement.	\$832,387.73	N/A
<b>Auxiliary Transmitter ULXTE-20</b>	<b>\$520,050.00</b>	<b>\$471,958.60</b>		<b>\$284,166.64</b>	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	N/A	\$282,208.04	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>Sub-total</b>	<b>\$2,939,685.35</b>	<b>\$1,484,654.36</b>	N/A	<b>\$1,208,164.40</b>	N/A
<b>Total for all systems</b>	<b>\$4,391,328.35</b>	<b>\$2,735,092.27</b>	N/A	<b>\$2,269,943.14</b>	N/A



Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div><div>Component Description:</div><div>Final Invoice Main Transmitter Attach pg 1 payment details Attach pg 2 Invoice Attach pg 3-6 Quote</div><div>Amount:</div><div>\$88,697.62</div></div>
Transformer 3 phase/480v - 150 KVA	<div><div>Component Description:</div><div>50% Transformer included with Transmitter Cost on Invoice. See Quote line item 16. Purchase Order is for all 11 Sites.</div><div>Amount:</div><div>\$2,912.41</div></div>

UHF - Liquid Cooled Solid  
State Transmitter 34 kW

**Component Description:**

Final Main  
Transmitter &  
Install See attach  
pg 1 for payment  
details, See attach  
pg 3 for quote  
87014

**Amount:**

\$88,697.62

**Component Description:**

Main Transmitter  
Invoice Due Date  
revised to Vendor  
Terms N 60  
Purchase Order  
includes all 11  
sites.

**Amount:**

\$380,102.58

**Component Description:**

50% Transmitter  
& Installation,  
Installation  
included w  
/Transmitter on  
Form 399.  
Purchase Order  
includes all 11  
sites. Transformer  
on line 16 of  
Quote is separate  
Form 399 Line  
Item.

**Amount:**

\$452,285.15

UHF - Liquid Cooled Solid  
State Transmitter 8.2 - 13  
kW

**Component Description:**

50% Aux  
Transmitter &  
Installation  
(Installation  
included w  
/Transmitter on  
Form 399).  
Transformer on  
line 17 of quote  
separate Form  
399 Line Item.  
Purchase Order  
for all 11 sites.

**Amount:**

\$138,753.79

**Component Description:**

Aux. Transmitter.  
Credit for  
transformer  
applied with  
transmitter per  
FCC Hotline  
(Paige 7/8/2019)  
due to system  
error. Invoice due  
date corrected to  
vendor terms (net  
60). See  
attachment pgs. 2-  
4 for summary.

**Amount:**

\$96,392.55

**Component Description:**

Final Invoice Aux  
Transmitter &  
Install See attach  
pg 1 for payment  
details, see attach  
pg 3 for quote  
87021

**Amount:**

\$47,061.70

Transformer 3 phase/480v -  
150 KVA

**Component Description:**

50% of  
Transformer on  
Line 17 of quote is  
included with  
Transmitter Cost  
on Invoice.  
Purchase Order is  
for all 11 sites.

**Amount:**

\$1,958.60

## 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 SAA14-O4A-G300-ET5R-27</b>	<b>\$308,530.00</b>	<b>\$91,198.01</b>		<b>\$78,898.01</b>	
Sweep test of existing antenna	\$6,730.00	\$7,680.00	See RFS Invoice 27011629	\$7,680.00	Budget Revision
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$71,218.01	***System Notice: Estimate adjusted and locked because line has been superseded. ***See RFS Antenna Narrative and quotes	\$71,218.01	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,300.00	N/A	N/A	N/A
<b>Auxiliary Antenna SAA22-O3-G200-ES4R-27</b>	<b>\$271,710.00</b>	<b>\$190,236.00</b>		<b>\$144,576.00</b>	

UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$144,576.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***See RFS Narrative with quotes	\$144,576.00	Budget will be adjusted
Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,260.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$23,150.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,570.00	N/A	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$7,680.00	see invoice 27011629	\$0.00	N/A
<b>Sub-total</b>	\$580,240.00	\$281,434.01	N/A	\$223,474.01	N/A
<b>Total for all systems</b>	\$4,391,328.35	\$2,735,092.27	N/A	\$2,269,943.14	N/A

## Components

Actual Information	
Description	File Name
Sweep test of existing antenna	<p><b>Component Description:</b> Aux Pre Sweep See attach pg 5 quote item 000080</p> <p><b>Amount:</b> \$7,680.00</p>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p><b>Component Description:</b> 50% Primary Antenna (See Bid Page 58 Attachment A Pricing Form Item 59) included in Inv &amp; PO Line 19. Invoice &amp; Purchase Order are for all 10 sites.</p> <p><b>Amount:</b> \$71,218.01</p>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

<p>UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="713 174 1023 208"><b>Component Description:</b></td><td data-bbox="1157 174 1372 562"> 50% Auxilliary Antenna (See Bid Page 57 Attachment A Pricing Form Item 56) included in Inv &amp; PO Line 19. Invoice &amp; Purchase Order are for all 10 sites. </td></tr> <tr> <td data-bbox="713 577 823 611"><b>Amount:</b></td><td data-bbox="1157 577 1289 611">\$72,288.00</td></tr> <tr> <td data-bbox="713 716 1023 750"><b>Component Description:</b></td><td data-bbox="1157 716 1372 1021"> 50% Aux Antenna Initial 50% on invoice 27011328 Remainder of invoice on separate Form 399 category - Transmission Line </td></tr> <tr> <td data-bbox="713 1037 823 1070"><b>Amount:</b></td><td data-bbox="1157 1037 1289 1070">\$72,288.00</td></tr> </table>	<b>Component Description:</b>	50% Auxilliary Antenna (See Bid Page 57 Attachment A Pricing Form Item 56) included in Inv & PO Line 19. Invoice & Purchase Order are for all 10 sites.	<b>Amount:</b>	\$72,288.00	<b>Component Description:</b>	50% Aux Antenna Initial 50% on invoice 27011328 Remainder of invoice on separate Form 399 category - Transmission Line	<b>Amount:</b>	\$72,288.00
<b>Component Description:</b>	50% Auxilliary Antenna (See Bid Page 57 Attachment A Pricing Form Item 56) included in Inv & PO Line 19. Invoice & Purchase Order are for all 10 sites.								
<b>Amount:</b>	\$72,288.00								
<b>Component Description:</b>	50% Aux Antenna Initial 50% on invoice 27011328 Remainder of invoice on separate Form 399 category - Transmission Line								
<b>Amount:</b>	\$72,288.00								
<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>								
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>								
<p>Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)</p>	<p>Information not provided.</p>								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="713 1787 1023 1821"><b>Component Description:</b></td><td data-bbox="1157 1787 1372 1899"> Aux Pre Sweep See attach pg 5 quote item 000080 </td></tr> <tr> <td data-bbox="713 1906 823 1939"><b>Amount:</b></td><td data-bbox="1157 1906 1275 1939">\$7,680.00</td></tr> </table>	<b>Component Description:</b>	Aux Pre Sweep See attach pg 5 quote item 000080	<b>Amount:</b>	\$7,680.00				
<b>Component Description:</b>	Aux Pre Sweep See attach pg 5 quote item 000080								
<b>Amount:</b>	\$7,680.00								



Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Auxiliary Transmission Line	\$113,600.00	\$76,078.71		\$76,078.71	
Rigid Transmission Line - copper, 4 1/16"	\$113,600.00	\$76,078.71	See RFS Narrative with attached pricing	\$76,078.71	N/A
Sub-total	\$113,600.00	\$76,078.71	N/A	\$76,078.71	N/A
Total for all systems	\$4,391,328.35	\$2,735,092.27	N/A	\$2,269,943.14	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line -  
copper, 4 1/16"

**Component Description:**

50% Aux  
Transmission Line  
Initial 50% paid on  
invoice 27011328  
Balance of invoice  
paid on separate  
Form 399 category  
- Aux Antenna

**Amount:**

\$38,039.35

**Component Description:**

50% Auxilliary  
Transmission Line  
(Bid Page 57  
Attachment A  
Pricing Form Item  
57) included in Inv  
& PO Line 19.  
Invoice &  
Purchase Order  
are for 10 sites.

**Amount:**

\$38,039.36

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	\$257,407.56		\$193,055.67	
Tall Tower (greater than 500')	\$210,500.00	\$257,407.56	See RFS Narrative with attached Pricing	\$193,055.67	N/A
Sub-total	\$210,500.00	\$257,407.56	N/A	\$193,055.67	N/A
Total for all systems	\$4,391,328.35	\$2,735,092.27	N/A	\$2,269,943.14	N/A

Components

Actual Information	
Description	File Name

---

Tall Tower (greater than 500')

**Component Description:**

Auxiliary / interim antenna installation. Purchase Order is for 10 sites.

**Amount:**

\$64,351.89

**Component Description:**

See Bid Page 57 Attachment A Pricing Form Item 60) for Primary Antenna included in Inv & PO Line 20. Invoice & Purchase Order are for 10 sites.

**Amount:**

\$64,351.89

**Component Description:**

50% Primary/Tall Tower Installation (See Bid Page 58 Attachment A Pricing Form Item 58) for Auxilliary Antenna included in Inv & PO Line 20. Invoice & Purchase Order are for 10 sites.

**Amount:**

\$64,351.89

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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	\$187,039.63		\$130,464.59	
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	\$525.00	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,675.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$2,000.00	N/A	\$750.00	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	\$102.75	N/A
Project management of the transition	\$18,960.00	\$120,289.63	See attachment "WUNP Program Designer - Manager Narrative" for details on estimated cost Amendment #3 attached to Invoice 157570 Amendment #4 attached to Invoice 160595	\$120,289.63	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	N/A	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
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
Additional Legal Expenses	<b>\$24,500.00</b>	\$24,500.00	Preliminary estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs.	\$4,622.21	N/A
Tower Structural Analysis	<b>\$7,000.00</b>	\$7,000.00	N/A	\$2,500.00	N/A
<b>Sub-total</b>	\$93,275.00	\$187,039.63	N/A	\$130,464.59	N/A
<b>Total for all systems</b>	\$4,391,328.35	\$2,735,092.27	N/A	\$2,269,943.14	N/A

## Components

Actual Information	
Description	File Name
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	<b>Component Description:</b>  <b>Amount:</b>	Outside Prof Svcs Consult Engineer CP for Aux \$525.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b>  <b>Amount:</b>	Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Main/Primary \$1,675.00
Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>  <b>Amount:</b>	Outside Professional Services Engineering Study New Channel Assignment Antenna Development \$750.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

<p>Prepare and or review reimbursement form</p>	<table> <tr> <td data-bbox="687 87 1102 786"><b>Component Description:</b></td><td data-bbox="1102 87 1426 786"> <p>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.</p> </td></tr> <tr> <td data-bbox="687 674 1102 786"><b>Amount:</b></td><td data-bbox="1102 674 1426 786">\$102.75</td></tr> </table>	<b>Component Description:</b>	<p>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.</p>	<b>Amount:</b>	\$102.75				
<b>Component Description:</b>	<p>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.</p>								
<b>Amount:</b>	\$102.75								
<p>Project management of the transition</p>	<table> <tr> <td data-bbox="687 786 1102 1279"><b>Component Description:</b></td><td data-bbox="1102 786 1426 1279"> <p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary</p> </td></tr> <tr> <td data-bbox="687 1167 1102 1279"><b>Amount:</b></td><td data-bbox="1102 1167 1426 1279">\$49,675.80</td></tr> <tr> <td data-bbox="687 1279 1102 1637"><b>Component Description:</b></td><td data-bbox="1102 1279 1426 1637"> <p>Outside Professional Services Project Management See attachment pg. 3 &amp; 4 for Project Summary</p> </td></tr> <tr> <td data-bbox="687 1570 1102 1637"><b>Amount:</b></td><td data-bbox="1102 1570 1426 1637">\$6,703.50</td></tr> </table>	<b>Component Description:</b>	<p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary</p>	<b>Amount:</b>	\$49,675.80	<b>Component Description:</b>	<p>Outside Professional Services Project Management See attachment pg. 3 &amp; 4 for Project Summary</p>	<b>Amount:</b>	\$6,703.50
<b>Component Description:</b>	<p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary</p>								
<b>Amount:</b>	\$49,675.80								
<b>Component Description:</b>	<p>Outside Professional Services Project Management See attachment pg. 3 &amp; 4 for Project Summary</p>								
<b>Amount:</b>	\$6,703.50								

<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>	\$3,792.19

<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>	\$1,089.00

<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>	\$2,285.63

<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>	\$1,089.00

<b>Component Description:</b>	Outside Professional Services Project Management Contract/Invoice summary for 11 sites see attach pgs 5-15
<b>Amount:</b>	\$2,800.00

<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>	\$10,283.66

<b>Component Description:</b>	Outside Prof Svcs Project Mgmt Attach pg 1-2 Invoice Attach pg 3- 19 Contracts Attach pg 10-30 Project Summary
<b>Amount:</b>	\$3,235.00

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
<b>Amount:</b>	\$5,141.83

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary
<b>Amount:</b>	\$11,881.60

<b>Component Description:</b>	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary. PO /Contract for all eleven transmitter sites.
<b>Amount:</b>	\$5,141.83

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

	<p><b>Component Description:</b> Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary</p> <p><b>Amount:</b> \$4,352.64</p>
	<p><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</p> <p><b>Amount:</b> \$1,493.35</p>
	<p><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.</p> <p><b>Amount:</b> \$2,302.10</p>
	<p><b>Component Description:</b> Outside Professional Services Project Management</p> <p><b>Amount:</b> \$9,022.50</p>
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	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
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.
Additional Legal Expenses	<div> <div> <b>Component Description:</b> </div> <div> 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 </div> </div> <div> <b>Amount:</b> </div> <div> \$22.27 </div>

<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
<b>Amount:</b>	\$35.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 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, 959.50/11 equal 87.23 as outlined on page 1 of invoice.
<b>Amount:</b>	\$87.23

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$146.00

<b>Component Description:</b>	Outside Prof. Svcs Additional Legal Expenses
<b>Amount:</b>	\$182.50

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 765.00/11 equal 69.54 as outlined on page 1 of invoice.
<b>Amount:</b>	\$69.54

<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>	\$474.50

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 168.50/11 equal 15.32 as outlined on page 1 of invoice.
<b>Amount:</b>	\$15.32

<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 15.91 as outlined on page 1 of invoice.
<b>Amount:</b>	\$15.91

<b>Component Description:</b>	Outside Professional 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 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>	\$539.20

<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 28.63 as outlined on page 1 of invoice.
<b>Amount:</b>	\$28.63

<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 Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 402.00/11 equal 36.54 as outlined on page 1 of invoice.
<b>Amount:</b>	\$36.54

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$73.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal 315.64 as outlined on page 1 of invoice.
<b>Amount:</b>	\$315.64

<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 33.45 as outlined on page 1 of invoice.
<b>Amount:</b>	\$33.45

<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 187.26 as outlined on page 1 of invoice.
<b>Amount:</b>	\$187.26

<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 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>	\$6.36

<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
<b>Amount:</b>	\$35.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2594.40/11 equal 235.86 as outlined on page 1 of invoice.
<b>Amount:</b>	\$235.86

<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>	\$885.70

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 67.40/11 equal 6.13 as outlined on page 1 of invoice.
<b>Amount:</b>	\$6.13

	<b>Component Description:</b>  <b>Amount:</b>	Outside Professional Services Additional Legal Expenses \$33.70
	<b>Component Description:</b>  <b>Amount:</b>	Outside Professional Services Additional Legal Expenses \$35.00
	<b>Component Description:</b>  <b>Amount:</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 29.37 as outlined on page 1 of invoice. \$29.37
	<b>Component Description:</b>  <b>Amount:</b>	Outside Professional Services Additional Legal Expenses \$105.00
Tower Structural Analysis	<b>Component Description:</b>  <b>Amount:</b>	Outside Professional Services Tower Structural Analysis See attachment page 7 for schedule of services. \$2,500.00





## 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>\$454,028.00</b>	<b>\$448,478.00</b>		<b>\$438,705.76</b>	
Mechanical Construction	<i>\$145,500.00</i>	\$145,500.00	See attached document WUNP GC Budget for justification and additional information See PO Summary (attach pg 106) with Riley Invoice 75-08	\$145,499.43	N/A
General Construction	<i>\$68,800.00</i>	\$68,800.00	See attached document WUNP GC Budget for justification and additional information See PO Summary (attach pg 106) with Riley Invoice 75-08	\$68,743.45	N/A

Electrical Construction	<b>\$151,900.00</b>	\$151,900.00	See the attached document, WUNP GC Budget for justification and additional information See PO Summary (attach pg 106) with Riley Invoice 75-08	\$151,878.57	N/A
Network Switch	<b>\$1,048.00</b>	\$1,048.00	See attachment - WUNP Network Switch Justification	\$1,047.97	N/A
MVPD Notification of Channel Change	<b>\$5,500.00</b>	\$5,500.00	Preliminary estimate of service	\$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>\$67,730.00</b>	\$67,730.00	Quotes for disposal of both transmitters are attached	\$67,322.70	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	Preliminary estimate of service	\$3,750.00	N/A
<b>Sub-total</b>	\$454,028.00	\$448,478.00	N/A	\$438,705.76	N/A
<b>Total for all systems</b>	\$4,391,328.35	\$2,735,092.27	N/A	\$2,269,943.14	N/A

## Components

Actual Information	Description	File Name
Mechanical Construction	<b>Component Description:</b>	Mechanical Contract See attach pg 1 for payment details. Invoice attach pg 2-10 Change orders attach pg 11-33 PO Summary attach pg 34
	<b>Amount:</b>	\$2,475.71
	<b>Component Description:</b>	Mechanical Contract See attach pg 1 for payment details Invoice attach pg 2-16, PO Summary attach pg 17.
	<b>Amount:</b>	\$494.72
	<b>Component Description:</b>	Mechanical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
	<b>Amount:</b>	\$128,117.41

	<b>Component Description:</b>	Mechanical Contract See attach pg 1 for payment details Invoice attach pg 2- 18 Change Orders attach pg 19-105 PO Summary attach pg 106
	<b>Amount:</b>	\$6,013.26
	<b>Component Description:</b>	Mechanical Contract See attach pg 1 for payment details. Invoice attach pg 2- 14 PO Summary attach pg 15, Recon pg 16.
	<b>Amount:</b>	\$4,360.83
	<b>Component Description:</b>	Mechanical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
	<b>Amount:</b>	\$4,037.50
General Construction	<b>Component Description:</b>	General Contract See attach pg 1 for payment details. Invoice attach pg 2- 10 Change orders attach pg 11-33 PO Summary attach pg 34
	<b>Amount:</b>	\$1,575.16

<b>Component Description:</b>	General Contract See attach pg 1 for payment details Invoice attach pg 2- 16, PO Summary attach pg 17
<b>Amount:</b>	\$37.73

<b>Component Description:</b>	General Contract See attach pg 1 for payment details. Invoice attach pg 2- 10 Change orders attach pg 11-28 PO Summary attach pg 29
<b>Amount:</b>	\$173.28

<b>Component Description:</b>	General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$8,821.99

<b>Component Description:</b>	General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$1,353.29

<b>Component Description:</b>	General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$33,689.27

<b>Component Description:</b>	Other Expenses General Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites.
<b>Amount:</b>	\$8,395.67

<b>Component Description:</b>	General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$1,057.24

<b>Component Description:</b>	General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$3,746.89

	<b>Component Description:</b>	General Contract See attach pg 1 for payment details. Invoice attach pg 2- 14 PO Summary attach pg 15, Recon pg 16.
	<b>Amount:</b>	\$2,223.93
	<b>Component Description:</b>	General Contract See attach pg 1 for payment details Invoice attach pg 2- 18 Change orders attach pg 19-105 PO Summary attach pg 106
	<b>Amount:</b>	\$7,669.00
	<hr/>	
	Electrical Construction	
	<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details. Invoice attach pg 2- 10 Change orders attach pg 11-33 PO Summary attach pg 34
	<b>Amount:</b>	\$1,925.98
	<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details. Invoice attach pg 2- 10 Change orders attach pg 11-28 PO Summary attach pg 29
	<b>Amount:</b>	\$352.24



<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$14,456.42

<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$20,354.44

<b>Component Description:</b>	Other Expenses Electrical Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites.
<b>Amount:</b>	\$14,227.20

<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details. Invoice attach pg 2- 14 PO Summary attach pg 15, Recon pg 16.
<b>Amount:</b>	\$4,393.87

<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$7,401.37

<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details Invoice attach pg 2- 18 Change orders attach pg 19-105 PO Summary attach pg 106
<b>Amount:</b>	\$10,331.07

<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$69,792.71

<b>Component Description:</b>	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
<b>Amount:</b>	\$8,643.27

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Network Switch	<p><b>Component Description:</b></p> <p>Other Expenses Network Switch 11 Switches for total of 11,527.67 equals 1,047.97 per transmitter site.</p> <p><b>Amount:</b></p> <p>\$1,047.97</p>
MVPD Notification of Channel Change	<p><b>Component Description:</b></p> <p>MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each</p> <p><b>Amount:</b></p> <p>\$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)	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Final Main Transmitter Disposal See attach pg 1 for payment details.  \$19,878.75 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> 50% Aux Transmitter Disposal. Purchase Order is for all 11 sites.  \$13,782.60 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> 50% Primary Transmitter Disposal. Purchase Order is for all 11 sites.  \$19,878.75 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Final Invoice Aux Transmitter Disposal See attach pg 1 for payment details  \$13,782.60 </div> </div>
DTV Medical Facility Notification	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Other Expenses DTV Med Notify  \$3,750.00 </div> </div>

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,391,328.35	\$2,735,092.27	\$2,269,943.14

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	

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

<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>11/19/2020</p>



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"> <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>11/19/2020</p>

## Attachments