



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **69360** | Service: **DTV** | Call **WUNL-TV** | Channel: **33 (UHF)** |
ID: | Sign:
File **0000028060**
Number:
FRN: **0001910066** | Date **12/09**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
University of North Carolina	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
Donald Smith	Donald Smith	+1 (919)	dsmith@unctv.
<i>Director of New Technologies</i>	10 UNC-TV Drive	549-7025	org
<i>Compliance Planning</i>	Research Triangle		
<i>University of North Carolina</i>	Park, NC 27709		
<i>Center for Public Television</i>	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
Existing Transmitter Description	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
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DHD30P1
	Year	2001
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	7.25 kW

**Auxiliary
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	12.9 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

**Auxiliary
Transmitter****Other Transmitter Costs**

Section	Question	Response
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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
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCX-2
	Year	1994
	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-80
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50.0 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
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**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
Existing Antenna Description	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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	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)	202.0 kW

Manufacturer	
Model	TLP-16M
Year	2001

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?	Yes
	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)	500.0 kW

Manufacturer	
Model	SAA12-ATW_WC-G400-ES5R-33
Year	2019
Justification for New Antenna	The antenna can only operate on channel 32. 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
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A

Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	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
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	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)	575.0 kW

Manufacturer	
Model	ATW16HS4- ETC170- 32S
Year	2009

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	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	SAA28- ATW_WC- E400-ET6R- 33
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 32. The only viable option is to replace the antenna.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel

	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Auxiliary Transmission Line

Add Transmission Line

Section	Question	Response
Existing Transmission Line Description	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
Existing Transmission Line Manufacturer and Type	Manufacturer	
	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	340 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	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	380 feet per run
	Justification for New Transmission Line	The existing transmission line has a stick length of 20 feet, a length that is inconsistent with operations on channel 33. The only option is to replace the transmission line.

Auxiliary	Other Transmission Line Expenses Not Listed
Transmission Line	Information not provided.

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Waveguide
	Diameter	N/A
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	355 feet per run

**Primary
Transmission Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	400 feet per run
	Justification for New Transmission Line	The waveguide manufacturer has indicated that the best option to move to channel 33 is to acquire new transmission line. The existing line hasn't been made since 2004, and replacement (instead of re-tuning) is recommended. See narrative for details.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
Information not provided.	

**Tower
Equipment
And
Rigging
Costs**

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

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	Terrain Constrained
	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?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1014577
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 22' 31.7" N-
	Longitude (NAD83)	080° 22' 17.5" W-
	Overall Structure Height	351.05 feet
	Support Structure Height	301.83 feet

	Ground Elevation Above Mean Sea Level (AMSL)	2358.90 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	UNIVERSITY OF NORTH CAROLINA
	Date Constructed	08/12/2009

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Terrain constrained
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
Outside Project Management Services	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.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	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
RF Field Engineering Services	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
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	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
Antenna Aux Other	Ice Protect & Install
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 Main Other	Plumb Tension, Fine Matchers, 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
Primary Transmitter ULXTE-80	\$1,498,550.00	\$876,512.41		\$869,897.71	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$873,600.00	The estimated cost is for the approved GatesAir ULXTE-60 transmitter. The transmitter purchase has been upgraded to a ULXTE-80. It is understood that the station is responsible for the upgrade portion of the purchase price. See Gates Invoice US0339419	\$866,985.30	Test

Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$2,912.41	***System Notice: Estimate adjusted and locked because line has been superseded. ***Remaining expenses moved to Other Expenses	\$2,912.41	N/A
Auxiliary Transmitter ULXTE-20	\$520,050.00	\$283,383.37		\$275,912.54	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$281,424.77	See attached Transmitter Pricing Narrative	\$273,953.94	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. ***Remaining expenses moved to Other Expenses	\$1,958.60	N/A
Sub-total	\$2,018,600.00	\$1,159,895.78	N/A	\$1,145,810.25	N/A
Total for all systems	\$3,864,257.90	\$2,800,821.89	N/A	\$2,659,893.54	N/A

Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	

Component Description:	Final Main Transmitter & Install See attach pg 1 for payment details, note pay obligation FCC vs. TV. See attach pg 3 for quote 87481. FCC portion 99,935.80, TV portion 27,221.60 19878.75 separate 399 category
Amount:	\$99,935.80

Component Description:	FCC Portion Main Transmitter, Due Date revised to vendor terms net 60. See attachment pg. 1 for payment details. Please note column Pay Obligation. FCC Portion \$346,646.16, WUNL Portion \$148,319.56
Amount:	\$346,646.16

Component Description:	50% Main Transmitter & Installation, Installation included w /Transmitter on Form 399, Transformer separate line on Form 399. Purchase Order is for all 11 sites.
Amount:	\$420,403.34

	<p>Component Description:</p> <p>FCC Portion Main Transmitter, Due Date revised to vendor terms net 60. See attachment pg. 1 for payment details. Please note column Pay Obligation. FCC Portion \$346,646.16, WUNL Portion \$148,319.56</p> <p>Amount:</p> <p>\$346,646.16</p>
Transformer 3 phase/480v - 150 KVA	<p>Component Description:</p> <p>50% Transformer on line 18 (Quote 75579), line 16 (Quote 75582). Purchase Order is for all 11 sites.</p> <p>Amount:</p> <p>\$2,912.41</p>

UHF - Liquid Cooled Solid
State Transmitter 8.2 - 13
kW

Component Description:

Aux Transmitter
See attach pg 1
for payment
details.

Amount:

\$94,631.15

Component Description:

Final Aux Trans &
Install See attach
pg 1 for payment
details, see attach
pg 3 for quote
87488

Amount:

\$40,569.00

Component Description:

Aux Transmitter
See attachment
pg 1 for payment
details.

Amount:

\$94,631.15

Component Description:

50% Aux
Transmitter &
Installation,
Installation
included w
/Transmitter on
Form 399.
Transformer
separate line item
on Form 399.
Purchase Order
for all 11 sites.

Amount:

\$138,753.79

Transformer 3 phase/480v - 150 KVA	<table><tr><td data-bbox="703 91 1134 548">Component Description:</td><td data-bbox="1134 91 1433 548">50% Transformer on line 17 of quote, separate line item on Form 399. Purchase order is for all 11 sites.</td></tr><tr><td data-bbox="703 548 1134 548">Amount:</td><td data-bbox="1134 548 1433 548">\$1,958.60</td></tr></table>	Component Description:	50% Transformer on line 17 of quote, separate line item on Form 399. Purchase order is for all 11 sites.	Amount:	\$1,958.60
Component Description:	50% Transformer on line 17 of quote, separate line item on Form 399. 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
Primary Antenna SAA28-ATW_WC-E400-ET6R-33	\$308,530.00	\$184,100.50		\$166,000.24	
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
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$166,000.50	See attached RFS Antenna Change Narrative with Pricing Information	\$166,000.24	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Auxiliary Antenna SAA12-ATW_WC-G400-ES5R-33	\$163,958.00	\$161,918.00		\$116,517.10	

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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, elliptically or circularly polarized	\$116,518.00	\$116,518.00	See RFS Antenna Change Narrative with Pricing Information See invoice 27011632 for additional cost for fine Matchers \$5,164.60	\$116,517.10	Will increase Budget to accomodate Fine Matchers \$5,164.60
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	\$12,000.00	N/A	N/A	N/A

Sub-total	\$472,488.00	\$346,018.50	N/A	\$282,517.34	N/A
Total for all systems	\$3,864,257.90	\$2,800,821.89	N/A	\$2,659,893.54	N/A

Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p>Component Description: 50% Primary Antenna (See Bid Page 57 Attachment A Pricing Form, Item # 52/53) included in Inv & PO Line 16. Invoice & Purchase Order are for 10 sites. 50% Portion paid by WUNL is displayed on Inv & PO Line 17. See revised attachment.</p> <p>Amount: \$83,000.24</p> <p>Component Description: Final 50% of FCC Portion See attach pg 1 for payment details, attach pg 2 for invoice</p> <p>Amount: \$83,000.00</p>
Sweep test of existing antenna	Information not provided.

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, elliptically or circularly polarized	<div> <div> Component Description: </div> <div> 50% Aux Antenna Initial Payment on Invoice 27011328 Transmission Line found on separate Form 399 category </div> </div> <div> <div> Amount: </div> <div> \$55,676.25 </div> </div> <div> <div> Component Description: </div> <div> 50% Auxilliary Antenna (See Bid Page 57 Attachment A Pricing Form Item 49) included in Inv & PO Line 16. Invoice & Purchase Order are for 10 sites. See revised attachment. </div> </div> <div> <div> Amount: </div> <div> \$55,676.25 </div> </div> <div> <div> Component Description: </div> <div> Aux Antenna Fine Matchers See Attach pg 3 for Quote Item 000040 </div> </div> <div> <div> Amount: </div> <div> \$5,164.60 </div> </div>
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	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
Primary Transmission Line	\$80,800.00	\$65,143.21		\$65,143.21	
Rigid Transmission Line - copper, 6 1/8"	\$80,800.00	\$65,143.21	See RFS Antenna Change Narrative with Pricing Information Invoice CB #3053	\$65,143.21	Budget Revision
Auxiliary Transmission Line	\$76,760.00	\$58,227.81		\$58,227.81	
Rigid Transmission Line - copper, 6 1/8"	\$76,760.00	\$58,227.81	See RFS Antenna Change Narrative with Pricing Information	\$58,227.81	N/A
Sub-total	\$157,560.00	\$123,371.02	N/A	\$123,371.02	N/A
Total for all systems	\$3,864,257.90	\$2,800,821.89	N/A	\$2,659,893.54	N/A

Components

Actual Information Description	File Name
--------------------------------	-----------

Rigid Transmission Line -
copper, 6 1/8"

Component Description:

Final 50%

Amount:

\$31,071.60

Component Description:

Primary
Transmission Line
Engineering Fields
Services

Amount:

\$3,000.00

Component Description:

50% Primary
Transmission Line
See Bid Page 57
Attachment A
Pricing Form Item
54) included in Inv
& PO Line 16.
Invoice &
Purchase Order
are for 10 sites.
See revised
attachment.

Amount:

\$31,071.61

Rigid Transmission Line -
copper, 6 1/8"

Component Description:

50% Aux
Transmission Line
Initial 50% paid on
invoice 27011328
See separate
Form 399
category-aux
antenna for
remainder of
invoice

Amount:

\$29,113.90

Component Description:

50% Auxilliary
Transmission Line
(See Bid Page 57
Attachment A
Pricing Form Item
50) included in Inv
& PO Line 16.
Invoice &
Purchase Order
are for 10 sites.
See revised
attachment.

Amount:

\$29,113.91

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	\$421,000.00	\$272,812.06		\$272,812.06	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$272,812.06	See RFS Antenna Change Narrative with Pricing Information	\$272,812.06	N/A
Sub-total	\$421,000.00	\$272,812.06	N/A	\$272,812.06	N/A
Total for all systems	\$3,864,257.90	\$2,800,821.89	N/A	\$2,659,893.54	N/A

Components

Actual Information	
Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	

Component Description:	50% Primary /Complex Tower Installation, invoice line #10. Initial 50% paid on invoice 27011328. Invoice line #20 for Remaining \$4,560.00 on invoice for Aux Dish Removal is obligation of WUNL & is not eligible for FCC Reimbursement..
Amount:	\$39,441.20

Component Description:	Final 50% Install
Amount:	\$96,964.83

Component Description:	50% Primary /Complex Tower Installation (See Bid Page 57 Attachment A Pricing Form Item 55) for Primary Antenna included in Inv & PO Line 18. Invoice & Purchase Order are for 10 sites. See revised attachment.
Amount:	\$96,964.83

Component Description:	50% Primary /Complex Tower Installation (See Bid Page 57 Attachment A Pricing Form Item 51) for Auxilliary Antenna included in Inv & PO Line 18. Invoice & Purchase Order are for 10 sites. See revised attachment.
Amount:	\$39,441.20

Component Description:	50% Primary /Complex Tower Installation, invoice line #10. Initial 50% paid on invoice 27011328. Invoice line #20 for Remaining \$4,560.00 on invoice for Aux Dish Removal is obligation of WUNL & is not eligible for FCC Reimbursement..
Amount:	\$39,441.20

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	\$202,939.63		\$149,255.33	
Tower Structural Analysis	<i>\$7,000.00</i>	\$7,000.00	N/A	\$5,000.00	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
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$653.40	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A

Project management of the transition	\$18,960.00	\$136,189.63	See attachment "WUNL Program Designer - Manager Narrative" for details on estimated cost Amendment #3 attached to Invoice 157570 Amendment #4 attached to Invoice 160595	\$136,189.63	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$102.76	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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$2,000.00	N/A	\$675.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,812.50	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	\$1,050.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A

ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Additional Legal Expenses	\$24,500.00	\$24,500.00	Estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs.	\$3,772.04	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
Sub-total	\$93,275.00	\$202,939.63	N/A	\$149,255.33	N/A
Total for all systems	\$3,864,257.90	\$2,800,821.89	N/A	\$2,659,893.54	N/A

Components

Actual Information
Description

File Name

Tower Structural Analysis	<div> <div>Component Description:</div> <div>Outside Professional Services Tower Structural Analysis See attachment page 7 for schedule of services.</div> </div> <div> <div>Amount:</div> <div>\$2,500.00</div> </div>
	<div> <div>Component Description:</div> <div>Outside Professional Services Structural Analysis See attachment pg. 7 for schedule of services.</div> </div> <div> <div>Amount:</div> <div>\$2,500.00</div> </div>
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<div> <div>Component Description:</div> <div>Outside Professional Services Attorney Fees Construction Permit Application Main/Primary</div> </div> <div> <div>Amount:</div> <div>\$653.40</div> </div>
Prepare request for Special Temporary Authorization	Information not provided.
Project management of the transition	

Component Description:	Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary
Amount:	\$6,703.50

Component Description:	Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary
Amount:	\$1,089.00

Component Description:	Outside Prof Services Project Management Contact/Invoice summary for 11 sites see attach pgs 5-15
Amount:	\$2,800.00

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:	\$11,842.56

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:	\$4,406.04

Component Description:	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.
Amount:	\$2,285.63

Component Description:	Outside Proj Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 3-6 for Contract /Invoice summary
Amount:	\$1,726.10

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:	\$5,921.28

Component Description:	Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary
Amount:	\$1,089.00

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$4,985.74

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:	\$2,683.60

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

Component Description:	Outside Prof Svcs Project Mgmt Attach pg 1-2 Invoice Attach pg 3- 19 Contracts Attach pg 10-30 Project Summary
Amount:	\$3,830.00

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$13,735.60

	<table> <tr> <td data-bbox="695 98 1114 405"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 98 1426 405"> <p>Outside Professional Services Project Management</p> <p>\$9,022.50</p> </td></tr> <tr> <td data-bbox="695 405 1114 831"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 405 1426 831"> <p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.</p> <p>\$5,921.28</p> </td></tr> <tr> <td data-bbox="695 831 1114 1323"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 831 1426 1323"> <p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.</p> <p>\$58,147.80</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Project Management</p> <p>\$9,022.50</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.</p> <p>\$5,921.28</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.</p> <p>\$58,147.80</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Project Management</p> <p>\$9,022.50</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.</p> <p>\$5,921.28</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.</p> <p>\$58,147.80</p>						
<p>Prepare and or review reimbursement form</p>	<table> <tr> <td data-bbox="695 1323 1114 2007"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 1323 1426 2007"> <p>Outside Professional Services Prepare Reimbursement Wages & Employer Portion Social Security for Temp Employee. Tasks applicable to all 11 repack sites, amount requested reflects portion payable per site.</p> <p>\$102.76</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Prepare Reimbursement Wages & Employer Portion Social Security for Temp Employee. Tasks applicable to all 11 repack sites, amount requested reflects portion payable per site.</p> <p>\$102.76</p>				
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Professional Services Prepare Reimbursement Wages & Employer Portion Social Security for Temp Employee. Tasks applicable to all 11 repack sites, amount requested reflects portion payable per site.</p> <p>\$102.76</p>						

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Outside Professional Services Engineering Study New Channel Assignment Antenna Development \$675.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Main/Primary \$1,812.50
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Amount:	Outside Prof Svcs Consult Engineer CP for Aux \$1,050.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	<p>Component Description:</p> <p>Outside Professional Services Attorney Fees CP Aux Antenna 6/28 .30 times 365.00</p> <p>Amount:</p> <p>\$109.50</p>
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Additional Legal Expenses	<p>Component Description:</p> <p>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.</p> <p>Amount:</p> <p>\$6.13</p> <p>Component Description:</p> <p>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.</p> <p>Amount:</p> <p>\$15.32</p>

Component Description:	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.
Amount:	\$31.82

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$67.40

Component Description:	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.
Amount:	\$87.23

Component Description:	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.
Amount:	\$315.63

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$73.00

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$182.50

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$67.40

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$70.00

Component Description:	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.
Amount:	\$235.85

Component Description:	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
Amount:	\$337.89

Component Description:	Outside Prof. Svcs Additional Legal Expenses
Amount:	\$73.00

Component Description:	Outside Professional Services Additional Legal Expense
Amount:	\$36.50

Component Description:	Outside Prof. Svcs Additional Legal Expenses
Amount:	\$109.50

Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 765.00/11 equal 69.55 as outlined on page 1 of invoice.
Amount:	\$69.55

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$70.00

Component Description:	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.
Amount:	\$15.91

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$35.00

Component Description:	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.
Amount:	\$52.08

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$35.00

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$35.00

Component Description:

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

Amount:

\$147.01

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
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.

Amount:

\$29.36

Component Description:	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
Amount:	\$187.27

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$70.00

Component Description:	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.
Amount:	\$33.46

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$476.40

Component Description:	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
Amount:	\$22.27

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$105.00

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$574.30

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$33.70

	<p>Component Description:</p> <p>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</p> <p>Amount:</p> <p>\$6.37</p>
	<p>Component Description:</p> <p>Outside Professional Services Additional Legal Expenses 6 /06/ thru 6/25 1.30 times 365.00</p> <p>Amount:</p> <p>\$474.50</p>
	<p>Component Description:</p> <p>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.</p> <p>Amount:</p> <p>\$28.64</p>
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$701,334.90	\$695,784.90		\$686,127.54	
Network Switch	<i>\$1,048.00</i>	\$1,048.00	See attachment - WUNL Network Switch Justification	\$1,047.97	N/A
Mechanical Construction	<i>\$266,587.17</i>	\$266,587.17	See attached document WUNL GC Budget See Heartland 18865WUNL-9	\$266,414.00	Budget Revision
Antenna Main Other	<i>\$31,767.00</i>	\$31,767.00	See RFS Invoice 27011720 with attached quotes 20082832 Items 000040 Fine Matchers & 000050 Elbows, quote 20079575 item 000070 Plumb Tension	\$31,766.34	N/A

General Construction	\$108,595.59	\$108,595.59	See attached document WUNL GC Budget	\$108,550.19	N/A
Electrical Construction	\$197,533.14	\$197,533.14	See attached document WUNL GC Budget See Heartland Invoice 18865WUNL-9	\$197,533.14	Budget Revision
Disposal Costs (for equipment and other waste, net of any salvage value)	\$67,474.00	\$67,474.00	See attached Main & Aux Transmitter Disposal Quotes See Gates Invoices US0339419 & US0339420	\$67,322.70	Budget Revision
Develop and air announcement of upcoming channel change	\$2,000.00	\$2,000.00	Preliminary estimate	N/A	N/A
MVPD Notification of Channel Change	\$5,500.00	\$5,500.00	Preliminary estimate for service	\$463.64	N/A
Antenna Aux Other	\$9,280.00	\$9,280.00	Ice Protection RFS Invoice 2701721 w /quote 20082790	\$9,279.56	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	Preliminary estimate for services	\$3,750.00	N/A

Sub-total	\$701,334.90	\$695,784.90	N/A	\$686,127.54	N/A
Total for all systems	\$3,864,257.90	\$2,800,821.89	N/A	\$2,659,893.54	N/A

Components

Actual Information Description	File Name
Network Switch	<p>Component Description: Other Expenses Network Switch 11 Switches for total of 11,527.67 equals 1,047.97 per transmitter site</p> <p>Amount: \$1,047.97</p>
Mechanical Construction	<p>Component Description: Other Expenses Mechanical Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach pg. 13.</p> <p>Amount: \$226,337.50</p> <p>Component Description: Other Expenses Mechanical Contract Attachment pg 1-6 Vendor supplied invoice Attachment pg 7 specifics of payment Attachment pg 8 begins PO Summary & associated documentation. PO for multiple sites.</p> <p>Amount: \$8,027.50</p>

	<p>Component Description: Mechanical Contract See attach pg 1 for invoice details, project recon.</p> <p>Amount: \$13,282.70</p>
	<p>Component Description: Other Expenses Mechanical Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach last page.</p> <p>Amount: \$9,646.30</p>
	<p>Component Description: Mechanical/HVAC contract PO for multiple sites.</p> <p>Amount: \$9,120.00</p>
Antenna Main Other	<p>Component Description: See attach pg 1 for payment details attach pg 2 for invoice attach pg 2-5 for quote 200828232 items 000040 Fine Matchers & 000050 Elbows, attach pg 6-9 for quote 20079575 item 000070 for plumb tension</p> <p>Amount: \$31,766.34</p>
General Construction	

Component Description:

Other Expenses
General Contract
Attachment pg 1-6
Vendor supplied
invoice Attachment
pg 7 specifics of
payment
Attachment pg 8
begins PO
Summary &
associated
documentation. PO
for multiple sites.

Amount:

\$8,312.50

Component Description:

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.

Amount:

\$6,458.10

Component Description:

General Contract
PO for multiple
sites.

Amount:

\$1,425.00

Component Description:	Oth Exp. Note Gen & Mech filed together. Gen filed solo generates system error since greater than inv. total. Attach pg 1 is inv details, attach pg 2-10 is vendor inv., attach pg 11 begins PO sum & support doc. PO for multiple sites.
Amount:	\$9,481.63

Component Description:	Other Expenses General Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach pg. 13.
Amount:	\$36,120.57

Component Description:	General Contract PO for multiple sites
Amount:	\$30,780.00

Component Description:	Other Expenses General Contract Payment details begin on attachment pg 11. PO for multiple sites.
Amount:	\$8,796.88

	<table> <tr> <td data-bbox="691 87 1114 421">Component Description:</td><td data-bbox="1114 87 1426 421">Other Expenses General Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach last page.</td></tr> <tr> <td data-bbox="691 421 1114 533">Amount:</td><td data-bbox="1114 421 1426 533">\$1,710.00</td></tr> <tr> <td data-bbox="691 533 1114 824">Component Description:</td><td data-bbox="1114 533 1426 824">General Contact See attach pg 1 for invoice details, project recon</td></tr> <tr> <td data-bbox="691 824 1114 891">Amount:</td><td data-bbox="1114 824 1426 891">\$5,465.51</td></tr> </table>	Component Description:	Other Expenses General Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach last page.	Amount:	\$1,710.00	Component Description:	General Contact See attach pg 1 for invoice details, project recon	Amount:	\$5,465.51
Component Description:	Other Expenses General Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach last page.								
Amount:	\$1,710.00								
Component Description:	General Contact See attach pg 1 for invoice details, project recon								
Amount:	\$5,465.51								
Electrical Construction	<table> <tr> <td data-bbox="691 824 1114 1541">Component Description:</td><td data-bbox="1114 824 1426 1541">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.</td></tr> <tr> <td data-bbox="691 1541 1114 1653">Amount:</td><td data-bbox="1114 1541 1426 1653">\$13,504.25</td></tr> <tr> <td data-bbox="691 1653 1114 2011">Component Description:</td><td data-bbox="1114 1653 1426 2011">Other Expenses Electrical Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach pg. 13.</td></tr> <tr> <td data-bbox="691 2011 1114 2134">Amount:</td><td data-bbox="1114 2011 1426 2134">\$91,138.19</td></tr> </table>	Component Description:	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.	Amount:	\$13,504.25	Component Description:	Other Expenses Electrical Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach pg. 13.	Amount:	\$91,138.19
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Amount:	\$13,504.25								
Component Description:	Other Expenses Electrical Contract See attach pg. 1 for payment details, PO summary for 5 sites on attach pg. 13.								
Amount:	\$91,138.19								

Component Description:	Other Expenses General Contract Payment details begin on attachment pg 11. PO for multiple sites.
Amount:	\$14,292.94

Component Description:	Other Expenses Electrical Contract Attachment pg 1-6 Vendor supplied invoice Attachment pg 7 specifics of payment Attachment pg 8 begins PO Summary & associated documentation. PO for multiple sites.
Amount:	\$26,695.00

Component Description:	Electrical Contract PO for multiple sites
Amount:	\$39,195.10

Component Description:	Electrical Contract See Attach pg 1 for invoice details, project recon
Amount:	\$12,707.66

<p>Disposal Costs (for equipment and other waste, net of any salvage value)</p>	<table> <tr> <td data-bbox="703 174 1013 208">Component Description:</td><td data-bbox="1147 174 1361 327">Final Invoice Main Disposal See attach pg 1 for payment details.</td></tr> <tr> <td data-bbox="703 338 815 365">Amount:</td><td data-bbox="1147 338 1278 365">\$19,878.75</td></tr> <tr> <td data-bbox="703 477 1013 510">Component Description:</td><td data-bbox="1147 477 1361 663">50% Main Transmitter Disposal Costs. Purchase Order is for all 11 sites.</td></tr> <tr> <td data-bbox="703 674 815 701">Amount:</td><td data-bbox="1147 674 1278 701">\$19,878.75</td></tr> <tr> <td data-bbox="703 813 1013 846">Component Description:</td><td data-bbox="1147 813 1361 999">50% Aux Transmitter Disposal Costs. Purchase Order is for all 11 sites.</td></tr> <tr> <td data-bbox="703 1010 815 1037">Amount:</td><td data-bbox="1147 1010 1278 1037">\$13,782.60</td></tr> <tr> <td data-bbox="703 1149 1013 1182">Component Description:</td><td data-bbox="1147 1149 1345 1335">Final invoice aux transmitter disposal. see attach pg 1 for payment details.</td></tr> <tr> <td data-bbox="703 1346 815 1373">Amount:</td><td data-bbox="1147 1346 1278 1373">\$13,782.60</td></tr> </table>	Component Description:	Final Invoice Main Disposal See attach pg 1 for payment details.	Amount:	\$19,878.75	Component Description:	50% Main Transmitter Disposal Costs. Purchase Order is for all 11 sites.	Amount:	\$19,878.75	Component Description:	50% Aux Transmitter Disposal Costs. Purchase Order is for all 11 sites.	Amount:	\$13,782.60	Component Description:	Final invoice aux transmitter disposal. see attach pg 1 for payment details.	Amount:	\$13,782.60
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Amount:	\$13,782.60																
<p>Develop and air announcement of upcoming channel change</p>	<p>Information not provided.</p>																
<p>MVPD Notification of Channel Change</p>	<table> <tr> <td data-bbox="703 1675 1013 1709">Component Description:</td><td data-bbox="1147 1675 1361 1827">MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each</td></tr> <tr> <td data-bbox="703 1839 815 1865">Amount:</td><td data-bbox="1147 1839 1243 1865">\$463.64</td></tr> </table>	Component Description:	MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each	Amount:	\$463.64												
Component Description:	MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each																
Amount:	\$463.64																

Antenna Aux Other	<div data-bbox="708 174 1011 210">Component Description:</div> <div data-bbox="1147 174 1374 486"> Aux Antenna Ice See attach pg 1 invoice with attach pg 2-4 for quote 20082790 for items 000010 & 000020 Install ice protect <div data-bbox="708 454 815 486">Amount:</div> <div data-bbox="1147 454 1267 486">\$9,279.56</div> </div>
DTV Medical Facility Notification	<div data-bbox="708 627 1011 663">Component Description:</div> <div data-bbox="1147 627 1362 817"> Medical Notification, PO /Quote for multiple call/locations. <div data-bbox="708 786 815 817">Amount:</div> <div data-bbox="1147 786 1267 817">\$3,750.00</div> </div>

**Cost
Information**

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,864,257.90	\$2,800,821.89	\$2,659,893.54

Reimbursement Status

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

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

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

<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>Charles Leffler <i>Director, Finance and Administration</i></p> <p>12/09/2020</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"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Charles Leffler <i>Director, Finance and Administration</i></p> <p>12/09/2020</p>

Attachments