



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **69292** | Service: **DTV** | Call **WUND-TV** | Channel: **29 (UHF)** |
ID: | Sign:
File **0000025920**
Number:
FRN: **0001910066** | Date **05/11**
Submitted: **/2021**

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@pbsnc. org	Government Entity
Doing Business As:	Triangle Park, University of North Carolina	549- 7000		
	NC 27709 United States			

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@pbsnc.
<i>Director New Technologies and Compliance Planning</i>	10 UNC-TV Drive Research Triangle	549-7025	org
<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****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup to Main)
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	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?	Yes
	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	CD3300P3
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	60 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-100
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	62.9 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

**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****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup to main
	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
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)	741.0 kW

Manufacturer	
Model	TFU-30GTH-R O4
Year	2000

**Auxiliary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Interim Facility
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	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)	808.0 kW
	Manufacturer	

Model	SAA30-O3-G200-ES5R-29
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 20. The only viable option is to replace the 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?	No
	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)	543.0 kW

Manufacturer	
Model	ATW25HS3-ETO-20H
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)	657.0 kW
	Manufacturer	

Model	SAA30-O4G300-ET8R-29
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 20. 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	8 3/16 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?	No

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?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1063239
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	35° 54' 01.0" N-
	Longitude (NAD83)	076° 20' 44.0" W-

Overall Structure Height	1640.07 feet
Support Structure Height	1574.13 feet
Ground Elevation Above Mean Sea Level (AMSL)	5.91 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	UNIVERSITY OF NORTH CAROLINA
Date Constructed	10/21/2010

**FM, AM or TV radio
broadcasters. Facility ID's,
Call Signs and Services of
other broadcast stations with
whom the tower is shared**

Facility ID	Call Sign	Service
89274	WUND-FM	FM

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional Services Costs**

Section	Question	Response
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?	Yes
	Does this relocation require Equipment Storage?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other
Expenses

Other Expenses Not Listed

Name	Description
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
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
Antenna Main Other	Fine Matchers Elbows

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-100	\$2,607,860.71	\$1,553,300.80		\$1,553,300.79	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$764,496.09	<p>***System Notice: Estimate adjusted and locked because line has been superseded.</p> <p>***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.</p>	\$764,496.09	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$5,744.00	<p>***System Notice: Estimate adjusted and locked because line has been superseded.***</p>	\$5,744.00	N/A

UHF - Liquid Cooled Solid State Transmitter 62.9 kW	\$783,060.71	\$783,060.71	Remaining balance from other main transmitter expense line See Gates Quotes 75368, 79709, 87533 w /Invoices JW30004411, US0329378, US0339405	\$783,060.70	Budget Revision
Auxiliary Transmitter ULXTE-20	\$520,050.00	\$471,958.60		\$184,470.72	
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
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	N/A	\$182,512.12	N/A
Sub-total	\$3,127,910.71	\$2,025,259.40	N/A	\$1,737,771.51	N/A
Total for all systems	\$4,256,284.41	\$3,338,062.77	N/A	\$2,917,338.14	N/A

Components

Actual Information

Description

File Name

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<table> <tr> <td data-bbox="711 98 1145 331"> Component Description: </td><td data-bbox="1145 98 1426 331"> Main Transmitter See attachment pg 1 for payment details. </td></tr> <tr> <td data-bbox="711 331 1145 421"> Amount: </td><td data-bbox="1145 331 1426 421"> \$644,355.24 </td></tr> <tr> <td data-bbox="711 465 1145 958"> Component Description: </td><td data-bbox="1145 465 1426 958"> 50% Main Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 Line item. Purchase Order for all 11 sites. </td></tr> <tr> <td data-bbox="711 958 1145 1043"> Amount: </td><td data-bbox="1145 958 1426 1043"> \$764,496.09 </td></tr> </table>	Component Description:	Main Transmitter See attachment pg 1 for payment details.	Amount:	\$644,355.24	Component Description:	50% Main Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 Line item. Purchase Order for all 11 sites.	Amount:	\$764,496.09
Component Description:	Main Transmitter See attachment pg 1 for payment details.								
Amount:	\$644,355.24								
Component Description:	50% Main Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 Line item. Purchase Order for all 11 sites.								
Amount:	\$764,496.09								
Transformer 3 phase/480v - 300 KVA	<table> <tr> <td data-bbox="711 1043 1145 1402"> Component Description: </td><td data-bbox="1145 1043 1426 1402"> 50% Transformer on Quote Line 16. Included with Transmitter on Invoice. Purchase Order for All 11 sites. </td></tr> <tr> <td data-bbox="711 1402 1145 1491"> Amount: </td><td data-bbox="1145 1402 1426 1491"> \$5,744.00 </td></tr> </table>	Component Description:	50% Transformer on Quote Line 16. Included with Transmitter on Invoice. Purchase Order for All 11 sites.	Amount:	\$5,744.00				
Component Description:	50% Transformer on Quote Line 16. Included with Transmitter on Invoice. Purchase Order for All 11 sites.								
Amount:	\$5,744.00								

UHF - Liquid Cooled Solid State Transmitter 62.9 kW	<div> Component Description: Main Transmitter See attach pg 1 for payment details. </div> <div> Amount: \$644,355.24 </div>
	<div> Component Description: Final Invoice Main Transmitter & Install See attach pg 1 for payment details attach pg 2 for invoice attach pg 3-6 for quote 87533 </div> <div> Amount: \$138,705.46 </div>
Transformer 3 phase/480v - 150 KVA	<div> Component Description: 50% Transformer on Quote Line 17. Included with Transmitter on Invoice. Purchase Order is for all 11 sites. </div> <div> Amount: \$1,958.60 </div>
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<div> Component Description: Final Aux Transmitter & Install See attach pg 1 for payment details See attach pg 3 for quote 87534 </div> <div> Amount: \$43,433.33 </div>

Component Description:	See attach pg 1 for savings generated from purchase of upgrade as opposed to Baseline Attach pg 2 invoice Attach pg 3 payment details Attach pg 4-6 quote 87534 Attach pg 7-14 quote 75370 Attach pg 15-21 quote 86881 Attach pg 22-43 narrative
Amount:	\$94,956.15

Component Description:	50% Aux Transmitter & Installation. Installation included w /Transmitter on Form 399. Purchase Order for all 11 sites.
Amount:	\$139,078.79

Component Description:

Attach pg 1 -
Invoice Attach pg
2 - Payment
Details Attach pg
3-5 Quote 87534
Attach pg 6-13
ULXTE20 Quote
75370 Attach pg
14-20 ULXTE16
Quote 86881
Attach pg 21-38
Narrative Attach
pg 39-42 Quote
79702

Amount:

\$94,956.15

Component Description:

Aux Transmitter
See attach pg 1
for payment
details. See additl
quote Q-86881 for
ULXTE-16 on
pages 7-13 of
attachment as
requested by
reviewer.

Amount:

\$94,956.15

Component Description:

Aux Transmitter
See attach pg 1-2
for UXLTE-20
Justification,
Attach pg 3 for
payment details
Attach pg 4 for
invoice Attach pg
5-8 for change
order

Amount:

\$94,956.15

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 SAA30-O4G300-ET8R-29	\$311,480.00	\$237,567.03		\$223,067.03	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$14,500.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$8,955.00	See RFS Invoice 27011674 with quote item 000020	\$8,955.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$214,112.03	See Narrative with Quote	\$214,112.03	N/A
Auxiliary Antenna SAA30-O3-G200-ES5R-29	\$194,740.00	\$194,955.00		\$156,247.21	

UHF - High Power, Side Mount, basic slot antenna, 808 kW input, elliptically or circularly polarized	\$147,300.00	\$147,300.00	See narrative with quote See invoice 27011696 with quote for Fine Matchers & Elbows	\$147,292.21	Budget Revision
Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$8,955.00	See RFS Invoice 27011674 with quote item 000020	\$8,955.00	N/A
Sub-total	\$506,220.00	\$432,522.03	N/A	\$379,314.24	N/A
Total for all systems	\$4,256,284.41	\$3,338,062.77	N/A	\$2,917,338.14	N/A

Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	Information not provided.
Sweep test of existing antenna	<p>Component Description: Primary/Main Pre Sweep See attachmt pg 4 quote item 000020 17910/2 equal 8955.00 Remainder of invoice on separate 399 categories</p> <p>Amount: \$8,955.00</p>

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="721 174 1027 208">Component Description:</td><td data-bbox="1161 174 1362 324">Final 50% Main Antenna Initial 50% paid invoice 27011328</td></tr> <tr> <td data-bbox="721 336 831 369">Amount:</td><td data-bbox="1161 336 1307 369">\$107,056.01</td></tr> <tr> <td data-bbox="721 477 1027 510">Component Description:</td><td data-bbox="1161 477 1362 705">50% Primary Antenna included in Inv & PO Line 3. Invoice & Purchase Order are for 10 sites.</td></tr> <tr> <td data-bbox="721 716 831 750">Amount:</td><td data-bbox="1161 716 1307 750">\$107,056.02</td></tr> </table>	Component Description:	Final 50% Main Antenna Initial 50% paid invoice 27011328	Amount:	\$107,056.01	Component Description:	50% Primary Antenna included in Inv & PO Line 3. Invoice & Purchase Order are for 10 sites.	Amount:	\$107,056.02
Component Description:	Final 50% Main Antenna Initial 50% paid invoice 27011328								
Amount:	\$107,056.01								
Component Description:	50% Primary Antenna included in Inv & PO Line 3. Invoice & Purchase Order are for 10 sites.								
Amount:	\$107,056.02								
<p>UHF - High Power, Side Mount, basic slot antenna, 808 kW input, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="721 884 1027 918">Component Description:</td><td data-bbox="1161 884 1370 1234">50% Aux Antenna invoice line 10, initial 50% on invoice 27011328 Invoice Line 20 Fine Matchers & Invoice Line 30 Elbows on attached quote</td></tr> <tr> <td data-bbox="721 1245 831 1279">Amount:</td><td data-bbox="1161 1245 1291 1279">\$77,972.71</td></tr> <tr> <td data-bbox="721 1386 1027 1420">Component Description:</td><td data-bbox="1161 1386 1362 1615">50% Auxilliary Antenna included in Inv & PO Line 3. Invoice & Purchase Order are for 10 sites.</td></tr> <tr> <td data-bbox="721 1626 831 1659">Amount:</td><td data-bbox="1161 1626 1294 1659">\$69,319.50</td></tr> </table>	Component Description:	50% Aux Antenna invoice line 10, initial 50% on invoice 27011328 Invoice Line 20 Fine Matchers & Invoice Line 30 Elbows on attached quote	Amount:	\$77,972.71	Component Description:	50% Auxilliary Antenna included in Inv & PO Line 3. Invoice & Purchase Order are for 10 sites.	Amount:	\$69,319.50
Component Description:	50% Aux Antenna invoice line 10, initial 50% on invoice 27011328 Invoice Line 20 Fine Matchers & Invoice Line 30 Elbows on attached quote								
Amount:	\$77,972.71								
Component Description:	50% Auxilliary Antenna included in Inv & PO Line 3. Invoice & Purchase Order are for 10 sites.								
Amount:	\$69,319.50								
<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>								

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Component Description:	Aux Pre Sweep see attach pg 4 quote item 000020 17910/2 equal 8955.00 Remainder of invoice on separate 399 categories
	Amount:	\$8,955.00

Cost Information **Transmission Line**
Information not provided.

Cost Information **Tower Equipment and Rigging Costs**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$210,500.00	\$362,213.00		\$348,074.77	
Tall Tower (greater than 500')	\$210,500.00	\$362,213.00	See narrative and attached quote See RFS Invoice 27011751	\$348,074.77	N/A
Sub-total	\$210,500.00	\$362,213.00	N/A	\$348,074.77	N/A
Total for all systems	\$4,256,284.41	\$3,338,062.77	N/A	\$2,917,338.14	N/A

Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	<div><div>Component Description:</div><div>Install Plumb Tension Attach pg 1 - Invoice Attach pg 2-5 Quote 79575 Item 000020</div><div>Amount:</div><div>\$78,888.00</div></div>

Component Description:	Final 50% Main Install Initial 50% paid invoice 27011328
Amount:	\$93,025.94

Component Description:	50% Primary /Complex Tower Installation for Primary Antenna included in Inv & PO Line 4. Invoice & Purchase Order are for 10 sites.
Amount:	\$93,025.95

Component Description:	50% Tower Aux Install Initial 50% paid invoice 27011328 Remainder of invoice on separate 399 categories
Amount:	\$41,567.44

Component Description:	50% Primary /Complex Tower Installation for Auxilliary Antenna included in Inv & PO Line 4. Invoice & Purchase Order are for 10 sites.
Amount:	\$41,567.44

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	\$204,739.64		\$154,719.71	
Tower Structural Analysis	<i>\$7,000.00</i>	\$7,000.00	N/A	\$2,500.00	N/A
Additional Legal Expenses	<i>\$24,500.00</i>	\$24,500.00	Preliminary estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs.	\$7,842.31	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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$109.50	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	\$109.50	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$2,878.50	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
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	\$650.00	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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$2,000.00	N/A	\$725.00	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

Project management of the transition	\$18,960.00	\$137,989.64	See attachment "WUND Program Designer - Manager Narrative" for details on estimated cost Amendment #3 attached to Invoice 157570 Amendment #4 attached to Invoice 160595	\$137,989.64	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$102.76	N/A
Sub-total	\$93,275.00	\$204,739.64	N/A	\$154,719.71	N/A
Total for all systems	\$4,256,284.41	\$3,338,062.77	N/A	\$2,917,338.14	N/A

Components

Actual Information	
Description	File Name
Tower Structural Analysis	<p>Component Description: Outside Professional Services Tower Structural Analysis See attachment page 7 for schedule of services.</p> <p>Amount: \$2,500.00</p>
Additional Legal Expenses	

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 33.45 as outlined on page 1 of invoice.
Amount:	\$33.45

Component Description:	Outside Prof Svcs Addtl Legal
Amount:	\$38.00

Component Description:	Outside Prof Svcs Addtl Legal See attach pg 1 for fee analysis by 399 category
Amount:	\$328.50

Component Description:	Outside Prof Svcs Addtl Legal See attach pg 1 for fee analysis by 399 category
Amount:	\$146.00

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
Legal services
benefit entire FCC
Repack project
across all 10 Call
Signs/Facility IDs,
3378.88/10 for
337.89 as outlined
on page 1 of
invoice.

Amount:

\$337.89

Component Description:

Outside
Professional
Services 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, 572.90/11 equal 52.08 as outlined on page 1 of invoice.
Amount:	\$52.08

Component Description:	Outside Prof Svcs Addtl Legal
Amount:	\$380.00

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

Component Description:	Outside Prof. Svcs Additional Legal Expenses
Amount:	\$36.50

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$146.00

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$146.00

Component Description:	Outside Professional Services Additional Legal Expenses 9 /26/19 .10 ;.10x365 equal \$36.50
Amount:	\$36.50

Component Description:	Outside Prof Svcs Addtl Legal
Amount:	\$623.50

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

Component Description:	Outside Prof Svcs Addtl Legal
Amount:	\$76.00

Component Description:	Outside Prof Svcs Addtl Legal See attach pg 1 fee analysis by 399 category
Amount:	\$570.00

Component Description:	Outside Prof Svcs Addtl Legal
Amount:	\$38.00

Component Description:	Outside Prof Svcs Addtl Legal
Amount:	\$266.00

Component Description:	Outside Prof Svcs Addtl Legal See attach pg 1 for fee analysis by 399 category
Amount:	\$60.00

Component Description:	Outside Prof Svc Addtl Legal See attach pg 1 for fee analysis by 399 category
Amount:	\$190.00

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 29.37 as outlined on page 1 of invoice.
Amount:	\$29.37

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 36.54 as outlined on page 1 of invoice.
Amount:	\$36.54

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

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$742.80

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

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

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
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:

\$22.28

Component Description:

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.

Amount:

\$28.63

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, 2594.40/11 for 235.86 as outlined on page 1 of invoice.
Amount:	\$235.86

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

Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 67.40/11 equal 6.12 as outlined on page 1 of invoice.
Amount:	\$6.12

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$280.00

Component Description:	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
Amount:	\$6.36

Component Description:	Outside Professional Services Additional Legal Expense Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2059.90/11 for 187.26 as outlined on page 1 of invoice.
Amount:	\$187.26

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

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

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, 1617.10/11 for 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, 765.00/11 equal 69.54 as outlined on page 1 of invoice.
Amount:	\$69.54

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

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 315.64 as outlined on page 1 of invoice.
Amount:	\$315.64

Component Description:	Outside Professional Services Additional Legal Expense
Amount:	\$346.50

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$140.00

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

	<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>
	<p>Component Description:</p> <p>Outside Professional Services Additional Legal Expenses</p> <p>Amount:</p> <p>\$597.70</p>
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 request for Special Temporary Authorization	<p>Component Description:</p> <p>Outside Prof Svcs STA See attach pg 1 for fee analysis by 399 category</p> <p>Amount:</p> <p>\$36.50</p>
	<p>Component Description:</p> <p>Outside Professional Services STA 9/27 /19 .2 x 365 equal \$73.00</p> <p>Amount:</p> <p>\$73.00</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	<div> <div> Component Description: </div> <div> Outside Prof Svcs CP AUX See attach pg 1 for fee analysis by 399 category </div> </div> <div> <div> Amount: </div> <div> \$109.50 </div> </div>

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="697 100 1114 443"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 100 1428 443"> <p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$146.00</p> </td></tr> <tr> <td data-bbox="697 443 1114 786"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 443 1428 786"> <p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$338.50</p> </td></tr> <tr> <td data-bbox="697 786 1114 1128"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 786 1428 1128"> <p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$190.00</p> </td></tr> <tr> <td data-bbox="697 1128 1114 1471"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 1128 1428 1471"> <p>Outside Pro Svcs CP See attach pg 1 fee analysis by 399 category \$1,292.00</p> </td></tr> <tr> <td data-bbox="697 1471 1114 1814"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 1471 1428 1814"> <p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$912.00</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$146.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$338.50</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$190.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Pro Svcs CP See attach pg 1 fee analysis by 399 category \$1,292.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$912.00</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$146.00</p>										
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$338.50</p>										
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$190.00</p>										
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Pro Svcs CP See attach pg 1 fee analysis by 399 category \$1,292.00</p>										
<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fee analysis by 399 category \$912.00</p>										
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>										
<p>ASR modification (prepare FCC Form 854)</p>	<p>Information not provided.</p>										

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	<div> <div>Component Description:</div> <div>Outside Prof Services Engineering Svcs Aux CP</div> </div> <div> <div>Amount:</div> <div>\$650.00</div> </div>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<div> <div>Component Description:</div> <div>Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application - Primary (Main)</div> </div> <div> <div>Amount:</div> <div>\$1,812.50</div> </div>
Perform engineering study for new channel assignment and antenna development	<div> <div>Component Description:</div> <div>Outside Professional Services Engineering Study New Channel Assignment Antenna Development</div> </div> <div> <div>Amount:</div> <div>\$725.00</div> </div>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Project management of the transition	

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

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$54,415.80

Component Description:	Outside Prof Svcs Project Mgmt Attach pg 1-2 Invoice Attach pg 3- 19 Contracts Attach pg 10-30 Project Summary
Amount:	\$3,630.00

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:	\$2,499.60

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:	\$4,088.44

Component Description:	Outside Prof Services Project Management Contract/Invoice summary for 11 sites see attach pgs 5-15
Amount:	\$2,700.00

Component Description:	Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary
Amount:	\$4,356.00

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:	\$10,876.16

Component Description:	Outside Professional Services Project Management
Amount:	\$9,022.50

Component Description:	Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary
Amount:	\$4,356.00

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$5,438.08

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:	\$5,438.08

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$12,671.60

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$4,550.14

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:	\$5,651.64

Component Description:	Outside Proj Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 3-6 for Contract /Invoice summary
Amount:	\$1,592.10

	<p>Component Description:</p> <p>Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary</p> <p>Amount:</p> <p>\$6,703.50</p>
Prepare and or review reimbursement form	<p>Component Description:</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>Amount:</p> <p>\$102.76</p>

**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	\$318,378.70	\$313,328.70		\$297,457.91	
Electrical Construction	<i>\$153,600.00</i>	\$153,600.00	See the attached document WUND GC Budget for additional information. See PO Summary (attach pg 106) with Riley Invoice 75- 08	\$153,597.79	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$72,533.70</i>	\$72,533.70	Invoiced amount based on competitive bid award	\$72,533.70	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,500.00	Preliminary cost estimate for service	\$3,750.00	N/A

General Construction	\$56,400.00	\$56,400.00	See the attached document WUND GC budget for additional information See PO Summary (attach pg 106) with Riley invoice 75-08	\$56,318.71	N/A
Equipment Delivery and Handling Charges	\$6,000.00	\$6,000.00	Preliminary estimates	N/A	N/A
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 cost estimate for service	\$463.64	N/A
Antenna Main Other	\$9,747.00	\$9,747.00	See RFS Invoice 27011752	\$9,746.10	N/A
Network Switch	\$1,048.00	\$1,048.00	See attachment - WUND Network Switch Justification	\$1,047.97	N/A
Sub-total	\$318,378.70	\$313,328.70	N/A	\$297,457.91	N/A
Total for all systems	\$4,256,284.41	\$3,338,062.77	N/A	\$2,917,338.14	N/A

Components

Actual Information**Description****File Name**

Electrical Construction

Component Description:

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

Amount:

\$1,290.73

Component Description:

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

Amount:

\$2,391.09

Component Description:

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

Amount:

\$17,476.97

Component Description:

Electrical Contract
See attach pg 1 for
payment details by
FACId/Call. See
attach last page
for Purchase
Order Summary
for multiple sites.

Amount:

\$104,785.00

Component Description:	Electrical Contract See attach pg 1 for payment details. Invoice attach pg 2- 14 PO Summary attach pg 15, Recon pg 16.
Amount:	\$4,617.36

Component Description:	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
Amount:	\$11,797.27

Component Description:	Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.
Amount:	\$11,239.37

Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	Final Aux Transmitter Disposal See attach pg 1 for payment details
	Amount:	\$13,782.60
	Component Description:	50 % Aux Transmitter Removal. Purchase Order is for all 11 sites.
	Amount:	\$13,782.60
	Component Description:	50% Main Transmitter Removal. Purchase Order is for all 11 sites.
	Amount:	\$22,484.25
	Component Description:	Final Main Transmitter Disposal See attach pg 1 for payment details
	Amount:	\$22,484.25
DTV Medical Facility Notification	Component Description:	Other Expenses Med Notify See attachment pg. 11 for schedule of services PO for 11 sites
	Amount:	\$3,750.00
General Construction		

Component Description:	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
Amount:	\$1,414.04

Component Description:	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
Amount:	\$1,598.20

Component Description:	Other Expenses General Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites.
Amount:	\$6,970.67

Component Description:	General Contract See attach pg 1 for payment details. Invoice attach pg 2- 14 PO Summary attach pg 15, Recon pg 16.
Amount:	\$1,708.17

	<div data-bbox="715 159 1378 510"> <p>Component Description: General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</p> <p>Amount: \$749.38</p> </div> <div data-bbox="715 618 1378 969"> <p>Component Description: General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</p> <p>Amount: \$34,853.36</p> </div> <div data-bbox="715 1077 1378 1429"> <p>Component Description: General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</p> <p>Amount: \$3,746.89</p> </div> <div data-bbox="715 1536 1378 1888"> <p>Component Description: 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</p> <p>Amount: \$5,278.00</p> </div>
Equipment Delivery and Handling Charges	Information not provided.

Develop and air announcement of upcoming channel change	Information not provided.	
MVPD Notification of Channel Change	Component Description: Amount:	MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each \$463.64
Antenna Main Other	Component Description: Amount:	Fine Matchers & Elbows See quote attach pg 3 items 000040 & 000050 \$9,746.10
Network Switch	Component Description: Amount:	Other Expenses Network Switch 11 Switches for total of 11,527.67 equals 1,047.97 per transmitter site. \$1,047.97

**Cost
Information**

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,256,284.41	\$3,338,062.77	\$2,917,338.14

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	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>Randy W Mills <i>Interim Director Finance and Administration</i></p> <p>05/11/2021</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>Randy W Mills <i>Interim Director Finance and Administration</i></p> <p>05/11/2021</p>

Attachments