



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **69332** | Service: **DTV** | Call **WUNJ-TV** | Channel: **21 (UHF)** |
ID: | Sign:
File **0000027170**
Number:
FRN: **0001910066** | Date **05/03**
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,	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@pbsnc.
<i>Director New Technologies</i>	10 UNC-TV Drive	549-7025	org
<i>Compliance and 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. So the only option available is to replace the transmitter. See attachment.

**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	2008
	Type	Inductive Output Tube
	IOT Power Type	Two
	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-120
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	75.1 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. So the only option available is to replace the transmitter. See attachment.

**Primary
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

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)	231.9 kW

Manufacturer	
Model	ALP12M2- HSOC-29
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?	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)	614.0 kW

Manufacturer	
Model	SAA16-O3-G200-ES6R-21
Year	2019
Justification for New Antenna	The antenna can only operate on channel 29. 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?	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	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)	1000.0 kW

Manufacturer	
Model	TFU- 30GTH-R O4
Year	2003

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?	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)	1000.0 kW
	Manufacturer	

Model	SAA30-O4A-G200-ET5R-21
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 29. 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

Primary Transmission Line**Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	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	Dielectric
	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	1090 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
No Expenses	A row added to solve a system issue requiring an expense line

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	3 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	800 feet per run

Auxiliary
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Interim and Eventual Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	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	800 feet per run

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

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1014589
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	34° 19' 16.6" N-
	Longitude (NAD83)	078° 13' 42.0" W-
	Overall Structure Height	1020.00 feet
	Support Structure Height	961.93 feet
	Ground Elevation Above Mean Sea Level (AMSL)	28.87 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	UNIVERSITY OF NORTH CAROLINA
	Date Constructed	03/09/2006

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

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
Antenna Main Other	Fine Matchers Elbows
Antenna Aux Other	Ice Protect & Labor
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

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-120	\$2,878,256.87	\$1,735,085.92		\$1,735,085.92	
UHF - Liquid Cooled Solid State Transmitter 75.1 kW	<i>\$879,256.87</i>	\$879,256.87	Balance from previous main transmitter expense line. Change made at the request of reimbursement reviewers See Gates quotes 75489, 79699, 87551 w /invoices JW30004419, US0326749, US0339413	\$879,256.87	Budget Revision
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$855,829.05	***System Notice: Estimate adjusted and locked because line has been superseded. ***See attached narrative with purchase quotes.	\$855,829.05	N/A
Auxiliary Transmitter ULXTE-20	\$520,050.00	\$471,958.60		\$297,936.45	

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	N/A	\$295,977.85	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$1,958.60	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$1,958.60	N/A
Sub-total	\$3,398,306.87	\$2,207,044.52	N/A	\$2,033,022.37	N/A
Total for all systems	\$4,777,158.87	\$3,621,167.37	N/A	\$3,302,508.33	N/A

Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 75.1 kW	<div> <div>Component Description:</div> <div>Amount:</div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Main Transmitter See attach pg 1 for payment details. \$748,845.33</div> <div>Final Main Transmitter & Install See attach pg 1 for payment details, See quote 87551 attach pg 3 \$130,411.54</div> </div>

<p>UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW</p>	<table> <tr> <td data-bbox="703 96 1037 403">Component Description:</td><td data-bbox="1037 96 1428 403">50% Main/Primary Transmitter & Installation (Installation included w/Form 399 Estimate).</td></tr> <tr> <td data-bbox="703 403 1037 492">Amount:</td><td data-bbox="1037 403 1428 492">\$855,829.05</td></tr> <tr> <td data-bbox="703 492 1037 804">Component Description:</td><td data-bbox="1037 492 1428 804">Main Transmitter See attachment pg 1 for payment details.</td></tr> <tr> <td data-bbox="703 804 1037 806">Amount:</td><td data-bbox="1037 804 1428 806">\$748,845.33</td></tr> </table>	Component Description:	50% Main/Primary Transmitter & Installation (Installation included w/Form 399 Estimate).	Amount:	\$855,829.05	Component Description:	Main Transmitter See attachment pg 1 for payment details.	Amount:	\$748,845.33
Component Description:	50% Main/Primary Transmitter & Installation (Installation included w/Form 399 Estimate).								
Amount:	\$855,829.05								
Component Description:	Main Transmitter See attachment pg 1 for payment details.								
Amount:	\$748,845.33								

UHF - Liquid Cooled Solid
State Transmitter 8.2 - 13
kW

Component Description:

Aux Transmitter.
Per FCC Hotline
(Paige 7/8/2019)
credit for
transformer
applied to
transmitter due to
system error.
Invoice due date
correct to vendor
terms (net 60).
See attachment
pgs. 2-4 for
summary.
Amount:
\$96,079.48

Component Description:

50% Aux
Transmitter &
Installation
(Installation
included w/Form
399 Estimate). 3
Phase
Transformer
(\$1,958.60) &
Transmitter
Removal Separate
Form 399 Line
Items.
Amount:
\$139,003.79

Component Description:

Final Aux
Transmitter &
Install See attach
pg 1 for payment
details See attach
pg 3 for quote
87552
Amount:
\$60,894.58

Transformer 3 phase/480v - 150 KVA	<div data-bbox="703 94 1428 515">Component Description: 50% Aux Transmitter 3 Phase Transformer. Aux Transmitter, Installation, & Removal separate Form 399 Line Items.</div> <div data-bbox="703 515 1428 627">Amount: \$1,958.60</div>
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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-O4A-G200-ET5R-21	\$308,530.00	\$219,297.01		\$177,274.04	
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	\$7,680.00	See RFS Invoice 27011698 with attached quote item 000070	\$7,680.00	.
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$199,917.01	See attached narrative with purchase quotes. See RFS Invoice 27011737	\$169,594.04	Budget Revision

Auxiliary Antenna SAA16-O3- G200- ES6R-21	\$185,810.00	\$183,470.00		\$144,184.25	
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	\$5,814.35	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, 614 kW input, elliptically or circularly polarized	\$138,370.00	\$138,370.00	See attached narrative and purchase quote See RFS Invoice 27011631 with quote for fine matchers & field cut lengths.	\$138,369.90	Budget Adjustment
Sub-total	\$494,340.00	\$402,767.01	N/A	\$321,458.29	N/A
Total for all systems	\$4,777,158.87	\$3,621,167.37	N/A	\$3,302,508.33	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.

Sweep test of existing antenna	<div> Component Description: Main Antenna Pre Sweep See quote item # 000070 on attachment page 5 See invoice note - vendor typo on invoice date, should be 2020 not 2010. Compare with quote date 2/7 /2019. </div> <div> Amount: \$7,680.00 </div>
	<div> Component Description: Main Antenna Pre Sweep See quote item # 000070 on attachment page 5 </div> <div> Amount: \$7,680.00 </div>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<div> Component Description: Inv Line # 10 Main Antenna See attach pg 1 for cover letter & payment details, See attach pg 8 for bid details </div> <div> Amount: \$69,635.53 </div> <div> Component Description: 50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites. See companion invoice 27011567. </div> <div> Amount: \$98,174.74 </div>

	<table> <tr> <td data-bbox="708 159 1015 192">Component Description:</td><td data-bbox="1150 159 1377 629">50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites. See companion invoice 27011328.</td></tr> <tr> <td data-bbox="708 640 815 674">Amount:</td><td data-bbox="1150 640 1267 674">\$1,783.77</td></tr> <tr> <td data-bbox="708 779 1015 813">Component Description:</td><td data-bbox="1150 779 1377 1167">50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites.</td></tr> <tr> <td data-bbox="708 1178 815 1211">Amount:</td><td data-bbox="1150 1178 1283 1211">\$98,174.74</td></tr> <tr> <td data-bbox="708 1317 1015 1350">Component Description:</td><td data-bbox="1150 1317 1358 1704">Primary Antenna Initial 50% of invoice previously processed. Input dollar amount instead of 50% of invoice to provide exact reimbursement amount.</td></tr> <tr> <td data-bbox="708 1715 815 1749">Amount:</td><td data-bbox="1150 1715 1267 1749">\$1,783.76</td></tr> </table>	Component Description:	50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites. See companion invoice 27011328.	Amount:	\$1,783.77	Component Description:	50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites.	Amount:	\$98,174.74	Component Description:	Primary Antenna Initial 50% of invoice previously processed. Input dollar amount instead of 50% of invoice to provide exact reimbursement amount.	Amount:	\$1,783.76
Component Description:	50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites. See companion invoice 27011328.												
Amount:	\$1,783.77												
Component Description:	50% Primary Antenna (See Bid Page 55 Attachment A Pricing Form Item 40) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites.												
Amount:	\$98,174.74												
Component Description:	Primary Antenna Initial 50% of invoice previously processed. Input dollar amount instead of 50% of invoice to provide exact reimbursement amount.												
Amount:	\$1,783.76												
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.												

Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<p>Component Description: Aux Elbow Complex See attach pg 3 quote item 000050 Other invoice items on separate Form 399 category (Aux Antenna)</p> <p>Amount: \$5,814.35</p>
Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 614 kW input, elliptically or circularly polarized	<p>Component Description: Aux Fine Matchers & Field Cut Lengths See attach pg 3 quote items 000040 & 000060 Elbows on separate Form 399 category</p> <p>Amount: \$14,100.90</p> <p>Component Description: 50% Aux Antenna Initial 50% paid on invoice 27011328</p> <p>Amount: \$62,134.50</p>

Component Description:	50% Auxilliary Antenna (See Bid Page 55 Attachment A Pricing Form Item 35) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites. 50% Portion paid by WUNJ is displayed on Inv & PO Line 12.
Amount:	\$62,134.50

Component Description:	50% Auxilliary Antenna (See Bid Page 55 Attachment A Pricing Form Item 35) included in Inv & PO Line 11. Invoice & Purchase Order are for 10 sites. 50% Portion paid by WUNJ is displayed on Inv & PO Line 12.
Amount:	\$62,134.50

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	\$0.00	\$0.00		\$0.00	
No Expenses	<i>\$0.00</i>	\$0.00	The result of a field that needed to be added to solve an error message.	N/A	N/A
Auxiliary Transmission Line	\$161,600.00	\$122,608.70		\$122,608.70	
Rigid Transmission Line - copper, 6 1/8"	\$161,600.00	\$122,608.70	See attached purchase quote	\$122,608.70	N/A
Sub-total	\$161,600.00	\$122,608.70	N/A	\$122,608.70	N/A
Total for all systems	\$4,777,158.87	\$3,621,167.37	N/A	\$3,302,508.33	N/A

Components

Actual Information	
Description	File Name
No Expenses	Information not provided.

Rigid Transmission Line -
copper, 6 1/8"

Component Description:

50% Trans Line
Initial 50% paid on
invoice 27011328
Corrected amount
on vendor invoice.

Amount:

\$61,304.35

Component Description:

50% Auxilliary
Transmission Line
(See Bid Page 55
Attachment A
Pricing Form Item
36) included in Inv
& PO Line 11.
Invoice &
Purchase Order
are for 10 sites.

Amount:

\$61,304.35

Component Description:

50% Auxilliary
Transmission Line
(See Bid Page 55
Attachment A
Pricing Form Item
36) included in Inv
& PO Line 11.
Invoice &
Purchase Order
are for 10 sites.

Amount:

\$61,304.35

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	\$286,720.50		\$286,720.50	
Tall Tower (greater than 500')	\$210,500.00	\$286,720.50	See attached purchase quote	\$286,720.50	N/A
Sub-total	\$210,500.00	\$286,720.50	N/A	\$286,720.50	N/A
Total for all systems	\$4,777,158.87	\$3,621,167.37	N/A	\$3,302,508.33	N/A

Components

Actual Information Description	File Name
Tall Tower (greater than 500')	<div><div>Component Description:</div><div>50% Aux Install Initial 50% paid invoice 27011328</div><div>Amount:</div><div>\$65,127.82</div></div> <div><div>Component Description:</div><div>Final 50% Primary /Tall Tower Install Initial payment on invoice 27011328</div><div>Amount:</div><div>\$78,232.43</div></div>

Component Description:	50% Primary/Tall Tower Installation (See Bid Page 55 Attachment A Pricing Form Item 41) for Primary Antenna included in Inv & PO Line 13. Invoice & Purchase Order are for 10 sites.
Amount:	\$78,232.43

Component Description:	50% Primary/Tall Tower Installation (See Bid Page 55 Attachment A Pricing Form Item 37) for Auxilliary Antenna included in Inv & PO Line 13. Invoice & Purchase Order are for 10 sites.
Amount:	\$65,127.82

Component Description:	50% Primary/Tall Tower Installation (See Bid Page 55 Attachment A Pricing Form Item 37) for Auxilliary Antenna included in Inv & PO Line 13. Invoice & Purchase Order are for 10 sites.
Amount:	\$65,127.82

Component Description:	50% Primary/Tall Tower Installation (See Bid Page 55 Attachment A Pricing Form Item 41) for Primary Antenna included in Inv & PO Line 13. Invoice & Purchase Order are for 10 sites.
Amount:	\$78,232.43

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	\$188,439.64		\$141,258.02	
Additional Legal Expenses	<i>\$24,500.00</i>	\$24,500.00	Estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs.	\$8,185.12	N/A
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
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$1,300.00	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$255.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$2,000.00	N/A	\$750.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,687.50	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$525.00	N/A

Prepare engineering section of FCC Form 2100 (main), 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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$859.50	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$830.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$73.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$102.76	N/A

Project management of the transition	\$18,960.00	\$121,689.64	See attachment "WUNJ Program Designer - Manager Narrative" for details on estimated cost. Amendment #3 requires additional \$4,463.64 documented with Invoice 157570.	\$121,689.64	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Sub-total	\$93,275.00	\$188,439.64	N/A	\$141,258.02	N/A
Total for all systems	\$4,777,158.87	\$3,621,167.37	N/A	\$3,302,508.33	N/A

Components

Actual Information	
Description	File Name
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: \$6.13</p>

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 Prof Svcs Add Legal See attach pg 1 for fees by 399 category
Amount:	\$52.00

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 Prof Additional Legal
Amount:	\$76.00

Component Description:	Outside Professional Service Additional Legal Expenses
Amount:	\$1,011.00

Component Description:	Outside Prof Svc Additional Lega See attach pg 1 for fees by 399 Category
Amount:	\$73.00

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

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

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$657.00

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

Component Description:	Outside Prof Svcs Addtl Legal See attach pg 1 for fees by 399 category
Amount:	\$219.00

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

Component Description:	Outside Prof Svcs Additional Legal
Amount:	\$1,334.00

Component Description:	Outside Prof Svcs Additional Legal
Amount:	\$190.00

Component Description:	Outside Prof Svcs Additional Legal
Amount:	\$136.00

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

Component Description:	Outside Prof Svcs Legal
Amount:	\$228.00

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 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 11 Call
Signs/Facility IDs,
368.00/11 equal
33.45 as outlined
on page 1 of
invoice.

Amount:

\$33.45

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

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

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

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

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, 168.50/11 equal 15.32 as outlined on page 1 of invoice.
Amount:	\$15.32

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, 323.00/11 equal 29.36 as outlined on page 1 of invoice.
Amount:	\$29.36

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, 315.00/11 equal 28.64 as outlined on page 1 of invoice.
Amount:	\$28.64

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 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
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
Professional
Services Additional
Legal Expenses
Legal services
benefit entire FCC
Repack project
across all 11 Call
Signs/Facility IDs,
2059.90/11 equal
187.26 as outlined
on page 1 of
invoice.

Amount:

\$187.26

Component Description:

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

Amount:

\$36.55

Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$401.50

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 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
Amount:	\$175.00

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 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
Amount:	\$70.00

	<p>Component Description: Outside Professional Services Additional Legal Expenses</p> <p>Amount: \$279.10</p>
	<p>Component Description: Outside Professional Services Additional Legal Expenses</p> <p>Amount: \$202.20</p>
	<p>Component Description: Outside Professional Services Additional Legal Expenses</p> <p>Amount: \$67.40</p>
Tower Structural Analysis	<p>Component Description: Outside Professional Services Structural Analysis See attachment pg. 7 for schedule of services.</p> <p>Amount: \$2,500.00</p> <p>Component Description: Outside Professional Services Tower Structural Analysis See attachment page 7 for schedule of services.</p> <p>Amount: \$2,500.00</p>
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.

ASR modification (prepare FCC Form 854)	Component Description: Outside Prof Svcs ASR Mod Amount: \$1,300.00
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Outside Prof Svcs STA See attach pg 1 for fees by 399 category Amount: \$36.50 Component Description: Outside Prof Svcs STA See attach pg 1 for fees by 399 category Amount: \$219.00
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: Outside Professional Services Engineering Study New Channel Assignment Antenna Development Amount: \$750.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Main/Primary Amount: \$1,687.50

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs Consult Engineer CP Aux \$525.00</p>
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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	<p>Component Description:</p> <p>Amount:</p> <p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP See attach pg 1 for fees by 399 category \$182.50</p> <p>Outside Prof Svcs CP \$677.00</p>
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	<p>Component Description:</p> <p>Amount:</p> <p>Component Description:</p> <p>Amount:</p>	<p>Outside Prof Svcs CP \$684.00</p> <p>Outside Prof Svcs CP Aux See attach pg 1 for fees by 399 category \$146.00</p>

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<p>Component Description:</p> <p>Outside Prof Svcs CP See attach pg 1 for fees by 399 category</p> <p>Amount:</p> <p>\$73.00</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>
Project management of the transition	<p>Component Description:</p> <p>Outside Prof Svcs Project Mgmt Attach pg 1-2 Invoice Attach pg 3- 19 Contracts Attach pg 10-30 Project Summary</p> <p>Amount:</p> <p>\$3,495.00</p> <p>Component Description:</p> <p>Outside Professional Services Project Management of Transition See attachment pg 3-6 for Contract/Invoice Summary. PO /Contract for all eleven transmitter sites.</p> <p>Amount:</p> <p>\$10,507.06</p>

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:	\$5,253.53

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:	\$5,253.53

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$52,462.80

Component Description:	Outside Professional Services Project Management of Transition See attachment pg. 3-6 for Contract/Invoice Summary. PO /Contract for all eleven transmitter sites.
Amount:	\$3,945.29

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

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:	\$2,411.10

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$4,398.74

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

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract/Invoice Summary.
Amount:	\$12,235.60

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

Component Description:	Outside Proj Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 5-8 for Contract /Invoice summary
Amount:	\$1,537.35

	<p>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.</p> <p>Amount: \$2,285.64</p> <p>Component Description: Outside Professional Svcs Proj Mgmt of Transition PO for eleven multiple sites See attach pg 2-7 for Contract /Invoice summary</p> <p>Amount: \$1,089.00</p>
Prepare request for Special Temporary Authorization	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	\$419,137.00	\$413,587.00		\$397,440.45	
General Construction	<i>\$76,501.00</i>	\$76,501.00	See the attached document WUNJ GC Budget for additional information See PO Summary (attach pg 106) with Riley Invoice 75-08	\$76,500.93	N/A
Electrical Construction	<i>\$169,900.00</i>	\$169,900.00	See attached document WUNJ GC Budge for additional information See PO Summary (attach Page 106) w/Riley Invoice 75-08	\$169,853.02	Budget Revision
Antenna Aux Other	<i>\$8,849.00</i>	\$8,849.00	See RFS Invoice 27011739 w/quote 82836 items 000010 & 000020	\$8,848.65	N/A

Antenna Main Other	\$70,189.00	\$70,189.00	See RFS Invoice 27011737 Fine Matchers Elbows with quote attach pg 4 See RFS Inv 27011748 Plumb & Tension	\$70,188.04	N/A
Network Switch	\$1,048.00	\$1,048.00	See attachment - WUNJ Network Switch Justification	\$1,047.97	N/A
MVPD Notification of Channel Change	\$5,500.00	\$5,500.00	Preliminary estimate of service.	\$463.64	N/A
Develop and air announcement of upcoming channel change	\$2,000.00	\$2,000.00	Preliminary estimate	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	Preliminary estimate of service	\$2,950.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$67,600.00	\$67,600.00	Quotes for disposal of the main and auxiliary transmitters	\$67,588.20	Budget Revision
Equipment Delivery and Handling Charges	\$6,000.00	\$6,000.00	Preliminary estimate	N/A	N/A
Sub-total	\$419,137.00	\$413,587.00	N/A	\$397,440.45	N/A

Total for all systems	\$4,777,158.87	\$3,621,167.37	N/A	\$3,302,508.33	N/A
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Components

Actual Information	
Description	File Name
General Construction	<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: \$1,065.51</p> <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: \$9,051.31</p> <p>Component Description: Other Expenses General Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites.</p> <p>Amount: \$9,051.31</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.
Amount:	\$36,223.96

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
Amount:	\$954.63

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:	\$2,544.68

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:	\$8,559.37

	<table> <tr> <td data-bbox="699 87 1141 470">Component Description:</td><td data-bbox="1141 87 1426 470">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</td></tr> <tr> <td data-bbox="699 470 1141 548">Amount:</td><td data-bbox="1141 470 1426 548">\$173.28</td></tr> <tr> <td data-bbox="699 548 1141 929">Component Description:</td><td data-bbox="1141 548 1426 929">General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</td></tr> <tr> <td data-bbox="699 929 1141 1025">Amount:</td><td data-bbox="1141 929 1426 1025">\$8,876.88</td></tr> </table>	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:	\$173.28	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.	Amount:	\$8,876.88
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:	\$173.28								
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.								
Amount:	\$8,876.88								
Electrical Construction	<table> <tr> <td data-bbox="699 1025 1141 1422">Component Description:</td><td data-bbox="1141 1025 1426 1422">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</td></tr> <tr> <td data-bbox="699 1422 1141 1500">Amount:</td><td data-bbox="1141 1422 1426 1500">\$352.24</td></tr> <tr> <td data-bbox="699 1500 1141 1881">Component Description:</td><td data-bbox="1141 1500 1426 1881">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</td></tr> <tr> <td data-bbox="699 1881 1141 2134">Amount:</td><td data-bbox="1141 1881 1426 2134">\$1,925.98</td></tr> </table>	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:	\$352.24	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:	\$1,925.98
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:	\$352.24								
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:	\$1,925.98								

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:	\$34,217.16

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:	\$10,680.27

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:	\$74,080.15

Component Description:	Other Expenses Electrical Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites.
Amount:	\$14,934.00

	<table> <tr> <td data-bbox="715 152 1023 192">Component Description:</td><td data-bbox="1155 152 1378 465">Electrical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</td></tr> <tr> <td data-bbox="715 474 823 515">Amount:</td><td data-bbox="1155 474 1273 515">\$7,401.37</td></tr> <tr> <td data-bbox="715 609 1023 649">Component Description:</td><td data-bbox="1155 609 1378 922">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</td></tr> <tr> <td data-bbox="715 931 823 972">Amount:</td><td data-bbox="1155 931 1286 972">\$21,418.67</td></tr> <tr> <td data-bbox="715 1066 1023 1106">Component Description:</td><td data-bbox="1155 1066 1378 1344">Electrical Contract See attach pg 1 for payment details. Invoice attach pg 2- 14 PO Summary attach pg 15, Recon pg 16.</td></tr> <tr> <td data-bbox="715 1352 823 1393">Amount:</td><td data-bbox="1155 1352 1273 1393">\$4,843.18</td></tr> </table>	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:	\$7,401.37	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:	\$21,418.67	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:	\$4,843.18
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Amount:	\$4,843.18												
Antenna Aux Other	<table> <tr> <td data-bbox="715 1514 1023 1554">Component Description:</td><td data-bbox="1155 1514 1378 1792">Aux Ice Protect and Labor Attach pg 1 Invoice Attach pg 2-5 quote 82836 items 000010 and 000020</td></tr> <tr> <td data-bbox="715 1800 823 1841">Amount:</td><td data-bbox="1155 1800 1273 1841">\$8,848.65</td></tr> </table>	Component Description:	Aux Ice Protect and Labor Attach pg 1 Invoice Attach pg 2-5 quote 82836 items 000010 and 000020	Amount:	\$8,848.65								
Component Description:	Aux Ice Protect and Labor Attach pg 1 Invoice Attach pg 2-5 quote 82836 items 000010 and 000020												
Amount:	\$8,848.65												

Antenna Main Other	<div> <div> Component Description: Amount: </div> <div> Main Plumb Tension with quote item 000050 on attach pg 4 \$65,280.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> See Cover Letter & payment details attach pg 1 Fine Matchers Elbows invoice line nos. 50 and 60. Quote on attach pg 4. \$4,908.04 </div> </div>
Network Switch	<div> <div> Component Description: Amount: </div> <div> Other Expenses Network Switch 11 Switches for total of 11,527.67 equals 1,047.97 per transmitter site. \$1,047.97 </div> </div>
MVPD Notification of Channel Change	<div> <div> Component Description: Amount: </div> <div> MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each \$463.64 </div> </div>
Develop and air announcement of upcoming channel change	Information not provided.
DTV Medical Facility Notification	<div> <div> Component Description: Amount: </div> <div> Other Expenses DTV Med Notify \$2,950.00 </div> </div>

Disposal Costs (for equipment and other waste, net of any salvage value)	<div> Component Description: Final Aux Transmitter Disposal See attach pg 1 for payment details. </div> <div> Amount: \$13,782.60 </div>
	<div> Component Description: 50% Auxillary Transmitter Removal. Auxillary Transmitter & Installation separate Form 399 Line Items. </div> <div> Amount: \$13,782.60 </div>
	<div> Component Description: 50% Main Transmitter Removal </div> <div> Amount: \$20,011.50 </div>
	<div> Component Description: Final Main Transmitter Disposal See attach pg 1 for payment details </div> <div> Amount: \$20,011.50 </div>
Equipment Delivery and Handling Charges	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,777,158.87	\$3,621,167.37	\$3,302,508.33

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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>05/03/2021</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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>05/03/2021</p>

Attachments