



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **41674** | Service: **DTV** | Call **WNDU-TV** | Channel: **27 (UHF)** |
ID:
File **0000028730**
Number:
FRN: **0018223693** | Date **08/18**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	WNDU 4307 Peachtree Road, NE Atlanta, GA 30319 United States	+1 (404) 504-9828	robert. folliard@gray. tv	Limited Liability Company

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
Samuel Hariton <i>Widely</i>	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

**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 station is replacing both the main and aux antenna systems, transmission lines, and transmitters with new hardware.

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	Backup
	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 Gen 1
	Year	1998
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	44 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	HPTV- PARLX-U32
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	Current Comark DCX Gen 1 from 1998 is not compatible with repack channel 27 and no available parts due to being discontinued

**Auxiliary
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	Yes
	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	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

Name	Description
Internal RF System	A new internal RF System is necessary for this Auxiliary Transmitter.

**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 Generation 1
	Year	1998
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	49 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	HPTV-PARLX-U32
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	Per manufacturer -- Current Comark DCX Gen 1 from 1998 is not compatible with repack channel 27 and no available parts due to being discontinued

**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	Yes
	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
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

Name	Description
Renovation	Necessary interior wall work for transmitter building
Transmitter Remote	Remote controls for transmitter
Site Survey	Basic site survey by GatesAir
Ice shield	Fencing extension for Interim heat exchanger

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
	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	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	32
	Design power capacity in use	100.0 %
	Lower Limit	638.00 MHz
	Upper Limit	644.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	631.0 kW

Manufacturer	
Model	TUP-04-8-1
Year	1995

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Backup
	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	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	32
	Lower Limit	548.00 MHz
	Upper Limit	644.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	573.0 kW
	Manufacturer	

Model	TUM-04-8 /32L-R-T-1
Year	2017
Justification for New Antenna	Current Dielectric broadband antenna is discontinued and no longer supported starting in 1997-1998

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?	Broadband
	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
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**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Top Plate Adapter	Adapter for top of tower to match the bolt pattern of the antenna

**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	Other
	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	Travelling Wave Slot
	ERP: (Effective Radiated Power)	800.0 kW

Manufacturer	
Model	ATW33H3- ETO-42H
Year	2012

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	Other
	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	Travelling Wave Slot
	ERP: (Effective Radiated Power)	650.0 kW
	Manufacturer	

Model	TFU-31ETT /VP-R 04
Year	2017
Justification for New Antenna	Current ERI antenna single channel on Ch 42, not compatible with repack Ch 27

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
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**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Top Plate Adapter	Adapter for the top of the tower to match the bolt pattern of the new antenna

Transmission Line

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

Auxiliary

Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	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	1040 feet per run

Auxiliary **New Transmission Line**
Transmission Line **Section**

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Backup
	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	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1040 feet per run
	Justification for New Transmission Line	Current 19.5' sections are not compatible with Ch 27

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

**Primary
Transmission Line**

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	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	1035 feet per run

Primary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1035 feet per run
	Justification for New Transmission Line	Current 19.5' sections are not compatible with Ch 27

Primary **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

**Auxiliary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Backup Tower
	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	Yes
	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	1027597
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 36' 19.2" N-
	Longitude (NAD83)	086° 12' 45.0" W-
	Overall Structure Height	877.94 feet
	Support Structure Height	839.88 feet

	Ground Elevation Above Mean Sea Level (AMSL)	845.13 feet
	Structure Type	NTOWER - Multiple Structures
	Tower Owner	Gray Television Group, Inc.
	Date Constructed	06/15/2006

**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
41675	WNDV-FM	FM
70459	WSND-FM	FM

Other Types of Users

Users
Amatuer Radio

**Auxiliary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Serious Reinforcements needed

**Auxiliary
Tower**

Tower Rigging Costs

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

**Auxiliary
Tower**

Other Tower Expenses Not Listed

Name	Description
Corrosion analysis and ultrasound measurements	Corrosion analysis and ultrasound measurements of lower 480 feet of auxiliary tower
Level 1 Foundation study	Level 1 Foundation study

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	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	Yes
	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	1027596
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 36' 20.0" N-
	Longitude (NAD83)	086° 12' 46.0" W-
	Overall Structure Height	1007.86 feet
	Support Structure Height	946.84 feet
	Ground Elevation Above Mean Sea Level (AMSL)	845.13 feet
	Structure Type	NTOWER - Multiple Structures
	Tower Owner	Gray Television Group, Inc.

	Date Constructed	01/01/1969
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**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
41675	WNDV-FM	FM

Other Types of Users

Users
ATF
FBI

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Serious Reinforcements needed

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

Name	Description
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Level I Corrosion Risk Assessment	Level I Corrosion Risk Assessment
Level II Corrosion Risk Assessment	Level II Corrosion Risk Assessment

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Support
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	2
	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	2
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	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	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Attorney Fees and Other Matters	Legal Services

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
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	Yes
	FCC Special Temporary Authority Application	Yes
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?	Yes
	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 Information not provided.
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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 HPTV-PARLX-U32	\$1,896,251.34	\$1,341,683.34		\$1,317,464.59	
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	<i>\$64,119.75</i>	\$64,119.75	see Estimated Cost Justification WNDU-110-Electrical Service New 1st Primary Transmitter v0	\$64,053.24	N/A
Transmitter Remote	<i>\$2,990.65</i>	\$2,990.65	N/A	\$0.00	N/A
Site Survey	<i>\$22,456.60</i>	\$22,456.60	Please see Estimated Cost Justification WNDU-110-Basic Site Survey v0	\$20,214.36	N/A
Renovation	<i>\$16,050.00</i>	\$16,050.00	N/A	\$14,591.50	N/A
Ice shield	<i>\$2,634.34</i>	\$2,634.34	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,233,432.00	Comark quote P#4034WNDU-PARLX-170530	\$1,218,605.49	N/A
Auxiliary Transmitter HPTV-PARLX-U32	\$1,968,900.00	\$1,524,994.00		\$1,220,114.33	
Internal RF System	\$140,000.00	\$140,000.00	N/A	N/A	N/A
10 Ton system	\$38,900.00	\$10,950.00	See quote from Ideal Consolidated Inc. for 10 ton system	N/A	N/A
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	\$2,000.00	\$2,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,372,044.00	Comark quote P#4034WNDU-DCXP2-170530 Comark quote P#4034WNDU-PARLX-170530	\$1,220,114.33	N/A
Sub-total	\$3,865,151.34	\$2,866,677.34	N/A	\$2,537,578.92	N/A

Total for all systems	\$7,864,358.34	\$6,541,722.99	N/A	\$4,031,240.55	N/A
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Components

Actual Information	
Description	File Name
<p>Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.</p>	<p>Component Description: Install 480v power for Transmitter pumps</p> <p>Amount: \$950.00</p>
	<p>Component Description: New Transmitters Phase II 75% Complete</p> <p>Amount: \$23,232.37</p>
	<p>Component Description: New Transmitters Phase II</p> <p>Amount: \$7,744.12</p>
	<p>Component Description: Add 1200A neutral per Quote #S21-1018</p> <p>Amount: \$25,813.75</p>
	<p>Component Description: Run code compliant power</p> <p>Amount: \$6,313.00</p>
	<p>Component Description: Invoice zeroed out, to be resubmitted.</p> <p>Amount: N/A</p>

Transmitter Remote	<div> <div> Component Description: Amount: </div> <div> Remote control New 1st Primary Transmitter \$2,842.77 </div> </div>
Site Survey	<div> <div> Component Description: Amount: </div> <div> Site Survey \$4,927.06 </div> </div> <div> <div> Component Description: Amount: </div> <div> Basic Site Survey \$7,307.30 </div> </div> <div> <div> Component Description: Amount: </div> <div> Site Survey \$7,980.00 </div> </div>
Renovation	<div> <div> Component Description: Amount: </div> <div> Excavate, remove & dispose of Sod & Soil to Depth of 8 in \$2,875.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Trane/American Standard Cooling Units \$11,716.50 </div> </div>
Ice shield	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description:		SYSTEM, WNDU
	Amount:		U32 D27 PH2
			\$657,004.36
	Component Description:		System, WNDU
	Amount:		U32 D27 PH2
			\$436,800.88
	Component Description:		System, WNDU
	Amount:		U32 D27
			\$124,800.25
Internal RF System	Information not provided.		
10 Ton system	Information not provided.		
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	Information not provided.		
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description:		System, WNDU
	Amount:		U32 D42 PH1
			\$742,248.37
	Component Description:		306 Commercial
	Amount:		Chain Link
			\$875.99
	Component Description:		New Auxiliary
	Amount:		Transmitter
			\$476,989.97

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 TFU-31ETT /VP-R 04	\$313,550.00	\$318,879.12		\$153,169.10	
Sweep test of existing antenna	\$6,730.00	\$11,591.12	see Estimated Cost Justification WNDU-210-Sweep test New Primary Antenna v1	\$8,711.12	N/A
Top Plate Adapter	<i>\$19,520.00</i>	\$19,520.00	N/A	\$10,736.00	N/A
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	<i>\$275,000.00</i>	\$275,000.00	Catalog Cost	\$124,145.98	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,768.00	JEHQ1248-02	\$9,576.00	a
Auxiliary Antenna TUM-04-8 /32L-R-T-1	\$329,450.00	\$196,377.50		\$161,841.90	

Top Plate Adapter	\$19,520.00	\$19,520.00	N/A	\$19,520.00	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$12,768.00	N/A	\$10,214.40	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See Estimated Cost Justification WNDU-250-Sweep test New Auxiliary Antenna v0	\$6,400.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$157,689.50	Updated JEHQ1308 & Radome Addition JEHQ1508	\$125,707.50	N/A
Sub-total	\$643,000.00	\$515,256.62	N/A	\$315,011.00	N/A
Total for all systems	\$7,864,358.34	\$6,541,722.99	N/A	\$4,031,240.55	N/A

Components

Actual Information
Description

File Name

Sweep test of existing antenna	<table> <tr> <td data-bbox="705 174 1018 210">Component Description:</td><td data-bbox="1153 174 1353 246">Sweep Test New Primary Antenna</td></tr> <tr> <td data-bbox="705 255 820 291">Amount:</td><td data-bbox="1153 255 1270 291">\$1,600.00</td></tr> <tr> <td data-bbox="705 394 1018 430">Component Description:</td><td data-bbox="1153 394 1353 465">Sweep test, New Primary Antenna</td></tr> <tr> <td data-bbox="705 474 820 510">Amount:</td><td data-bbox="1153 474 1270 510">\$1,920.00</td></tr> <tr> <td data-bbox="705 613 1018 649">Component Description:</td><td data-bbox="1153 613 1294 649">Sweep Test</td></tr> <tr> <td data-bbox="705 658 820 694">Amount:</td><td data-bbox="1153 658 1270 694">\$5,191.12</td></tr> </table>	Component Description:	Sweep Test New Primary Antenna	Amount:	\$1,600.00	Component Description:	Sweep test, New Primary Antenna	Amount:	\$1,920.00	Component Description:	Sweep Test	Amount:	\$5,191.12
Component Description:	Sweep Test New Primary Antenna												
Amount:	\$1,600.00												
Component Description:	Sweep test, New Primary Antenna												
Amount:	\$1,920.00												
Component Description:	Sweep Test												
Amount:	\$5,191.12												
Top Plate Adapter	<table> <tr> <td data-bbox="705 824 1018 860">Component Description:</td><td data-bbox="1153 824 1366 936">Top plate adapter, New Primary Antenna</td></tr> <tr> <td data-bbox="705 945 820 981">Amount:</td><td data-bbox="1153 945 1270 981">\$5,856.00</td></tr> <tr> <td data-bbox="705 1084 1018 1120">Component Description:</td><td data-bbox="1153 1084 1366 1196">Top Plate Adapter New Primary Antenna</td></tr> <tr> <td data-bbox="705 1205 820 1240">Amount:</td><td data-bbox="1153 1205 1270 1240">\$4,880.00</td></tr> </table>	Component Description:	Top plate adapter, New Primary Antenna	Amount:	\$5,856.00	Component Description:	Top Plate Adapter New Primary Antenna	Amount:	\$4,880.00				
Component Description:	Top plate adapter, New Primary Antenna												
Amount:	\$5,856.00												
Component Description:	Top Plate Adapter New Primary Antenna												
Amount:	\$4,880.00												
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	<table> <tr> <td data-bbox="705 1377 1018 1413">Component Description:</td><td data-bbox="1153 1377 1358 1489">UHF- High Power Top Mount (200-1000KW)</td></tr> <tr> <td data-bbox="705 1498 820 1534">Amount:</td><td data-bbox="1153 1498 1284 1534">\$56,429.99</td></tr> <tr> <td data-bbox="705 1637 1018 1673">Component Description:</td><td data-bbox="1153 1637 1358 1749">UHF-High Power Top Mount (200-1000KW)</td></tr> <tr> <td data-bbox="705 1758 820 1794">Amount:</td><td data-bbox="1153 1758 1284 1794">\$67,715.99</td></tr> </table>	Component Description:	UHF- High Power Top Mount (200-1000KW)	Amount:	\$56,429.99	Component Description:	UHF-High Power Top Mount (200-1000KW)	Amount:	\$67,715.99				
Component Description:	UHF- High Power Top Mount (200-1000KW)												
Amount:	\$56,429.99												
Component Description:	UHF-High Power Top Mount (200-1000KW)												
Amount:	\$67,715.99												

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<div> Component Description: WNDU-210-Elbow complex New Primary Antenna </div> <div> Amount: \$2,553.60 </div>
	<div> Component Description: Elbow Complex New Primary Antenna </div> <div> Amount: \$3,192.00 </div>
	<div> Component Description: Elbow complex, New Primary Antenna </div> <div> Amount: \$3,830.40 </div>
Top Plate Adapter	<div> Component Description: WNDU-250-Top plate adapter New Auxiliary Antenna </div> <div> Amount: \$3,904.00 </div>
	<div> Component Description: Auxiliary/Interim Antenna Top Plate Adapter </div> <div> Amount: \$5,856.00 </div>
	<div> Component Description: Auxiliary/Interim Antenna Top Plate Adapter </div> <div> Amount: \$4,880.00 </div>
	<div> Component Description: Auxiliary/Interim Antenna Top Plate Adapter </div> <div> Amount: \$4,880.00 </div>

Elbow complex, broadband,
at antenna input, per 6 1/8.
feedline (if needed)

Component Description:

Auxiliary/Interim
Antenna Elbow
Complex

Amount:

\$3,830.40

Component Description:

Auxiliary/Interim
Antenna - Elbow
Complex

Amount:

\$3,192.00

Component Description:

Auxiliary/Interim
Antenna - Elbow
Complex

Amount:

\$3,192.00

Sweep test of existing antenna

Component Description: WNDU-250-Sweep test New Auxiliary Antenna
Amount: \$1,280.00

Component Description: Invoice moved to correct budget category
Amount: N/A

Component Description: Sweep Test Auxiliary/Interim Antenna
Amount: \$1,920.00

Component Description: Auxiliary/Interim Antenna Sweep Test
Amount: \$1,600.00

Component Description: Auxiliary/Interim Antenna Sweep Test
Amount: \$1,600.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized		
	Component Description:	UHF - BROADBAND PANEL, TOP MOUNT AUX /INTERIM
	Amount:	\$29,319.89
	Component Description:	New Auxiliary Antenna
	Amount:	\$30,121.13
	Component Description:	UHF Broadband Panel Top mount Aux/Interim TV Antenna
	Amount:	\$36,145.35
	Component Description:	New Auxiliary Antenna
	Amount:	\$30,121.13

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	\$209,070.00	\$152,101.30		\$83,655.69	
Rigid Transmission Line - copper, 6 1/8"	\$209,070.00	\$152,101.30	N/A	\$83,655.69	N/A
Auxiliary Transmission Line	\$241,280.00	\$205,744.73		\$204,543.73	
Rigid Transmission Line - copper, 6 1/8" broadband	\$241,280.00	\$205,744.73	Increased per shipping on Justifying Invoice - WNDU DTVPros 179-3	\$204,543.73	N/A
Sub-total	\$450,350.00	\$357,846.03	N/A	\$288,199.42	N/A
Total for all systems	\$7,864,358.34	\$6,541,722.99	N/A	\$4,031,240.55	N/A

Components

Actual Information
Description

File Name

Rigid Transmission Line - copper, 6 1/8"	Component Description:	New Primary
	Amount:	Transmission Line \$38,025.31
	Component Description:	New Primary
	Amount:	Transmission Line \$45,630.38
Rigid Transmission Line - copper, 6 1/8" broadband	Component Description:	WNDU-350-New
	Amount:	Auxiliary Transmission Line \$52,780.23
	Component Description:	Interim
	Amount:	Transmission Line \$56,911.32
	Component Description:	Auxiliary/Interim
	Amount:	Transmission Line \$47,426.09
	Component Description:	Auxiliary/Interim
	Amount:	Transmission Line \$47,426.09

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
Auxiliary Tower NTOWER	\$1,281,650.00	\$1,241,950.00		\$376,188.99	
Tall Tower (greater than 500')	\$210,500.00	\$227,700.00	see Estimated Cost Justification WNDU-450-Tall Tower - Auxiliary Tower v0	\$227,700.00	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,000,000.00	N/A	\$134,988.99	N/A
Level 1 Foundation study	<i>\$750.00</i>	\$750.00	N/A	\$0.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$7,700.00	Additional official stamped tower analysis required because of the addition of radomes to aux antenna, radomes required to reduce wind loading and meet tower loading.	\$7,700.00	N/A

Corrosion analysis and ultrasound measurements	\$5,800.00	\$5,800.00	See attached invoice and purchase order 072617TD	\$5,800.00	N/A
Primary Tower NTOWER	\$1,280,600.00	\$1,244,087.50		\$327,721.25	
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,000,000.00	N/A	\$86,383.75	N/A
Level II Corrosion Risk Assessment	\$4,750.00	\$4,750.00	N/A	\$2,750.00	N/A
Level I Corrosion Risk Assessment	\$750.00	\$750.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$8,587.50	N/A	\$8,587.50	N/A
Tall Tower (greater than 500')	\$210,500.00	\$230,000.00	See WNDU PO 19-FCCMain2 Quote Q17-06-013	\$230,000.00	N/A
Sub-total	\$2,562,250.00	\$2,486,037.50	N/A	\$703,910.24	N/A
Total for all systems	\$7,864,358.34	\$6,541,722.99	N/A	\$4,031,240.55	N/A

Components

Actual Information Description	File Name
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Tall Tower (greater than 500')		
	Component Description:	Project Extra Costs
	Amount:	\$47,200.00
	Component Description:	AUX TWR Rigging, Antenna & Complete feedline removal
	Amount:	\$47,500.00
	Component Description:	Aux TWR Rigging, Antenna & Complete Feedline Removal
	Amount:	\$133,000.00

Serious tower reinforcement /modifications	Component Description:	Tower Reinforcement /Modification of Auxiliary Tower
	Amount:	\$26,590.50
	Component Description:	Tower Resocket on Level 6 B&C anchor points Auxiliary Tower
	Amount:	\$6,469.25
	Component Description:	Tower reinforcement & design drawings Existing Auxiliary Tower
	Amount:	\$2,750.00
	Component Description:	75% costs Tower Reinforcement /Modification on 840ft Tower (Auxiliary)
	Amount:	\$79,771.50
	Component Description:	Tower Resocket on 840' Level 6 B&C Anchor Points
	Amount:	\$19,407.74
Level 1 Foundation study	Information not provided.	

<p>Structural engineering tower load study for well documented tower</p>	<table> <tr> <td data-bbox="694 87 1093 369"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 87 1428 369"> <p>Structural Analysis of Auxiliary Tower</p> <p>\$5,450.00</p> </td></tr> <tr> <td data-bbox="694 369 1093 526"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 369 1428 526"> <p>Structural Analysis</p> <p>\$2,250.00</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Structural Analysis of Auxiliary Tower</p> <p>\$5,450.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Structural Analysis</p> <p>\$2,250.00</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Structural Analysis of Auxiliary Tower</p> <p>\$5,450.00</p>				
<p>Component Description:</p> <p>Amount:</p>	<p>Structural Analysis</p> <p>\$2,250.00</p>				
<p>Corrosion analysis and ultrasound measurements</p>	<table> <tr> <td data-bbox="694 526 1093 1153"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 526 1428 1153"> <p>Corrosion inspection and Ultrasound measurements of tower legs in preparation for design and application of reinforcing required for re-pack tower modifications.</p> <p>\$2,900.00</p> </td></tr> <tr> <td data-bbox="694 1153 1093 1469"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 1153 1428 1469"> <p>Corrosion inspection and Ultrasound measurements - Primary Tower</p> <p>\$2,900.00</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Corrosion inspection and Ultrasound measurements of tower legs in preparation for design and application of reinforcing required for re-pack tower modifications.</p> <p>\$2,900.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Corrosion inspection and Ultrasound measurements - Primary Tower</p> <p>\$2,900.00</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Corrosion inspection and Ultrasound measurements of tower legs in preparation for design and application of reinforcing required for re-pack tower modifications.</p> <p>\$2,900.00</p>				
<p>Component Description:</p> <p>Amount:</p>	<p>Corrosion inspection and Ultrasound measurements - Primary Tower</p> <p>\$2,900.00</p>				

Serious tower reinforcement /modifications		
	Component Description:	Tower reinforcement. /Modifications- Primary Tower
	Amount:	\$18,761.31
	Component Description:	Perform sub-surface soil evaluation on towers - Laboratory Services
	Amount:	\$2,892.00
	Component Description:	Tower reinforcement & design drawings Existing Primary Tower
	Amount:	\$2,750.00
	Component Description:	75% costs of Tower Reinforcement /Modification on 945ft Tower (Primary)
	Amount:	\$56,283.94
	Component Description:	Perform sub-surface soil evaluation on towers - Mobilization
	Amount:	\$5,696.50

Level II Corrosion Risk Assessment	<div> Component Description: Corrosion inspection and Ultrasound measurements </div> <div> Amount: \$2,750.00 </div>
Level I Corrosion Risk Assessment	Information not provided.
Structural engineering tower load study for well documented tower	<div> Component Description: Structural Engineering Tower Load study - Primary Tower </div> <div> Amount: \$5,450.00 </div>
	<div> Component Description: Take measurements for tower modifications and record elevations </div> <div> Amount: \$2,137.50 </div>
	<div> Component Description: Structural Engineering Tower Load study </div> <div> Amount: \$1,000.00 </div>
	<div> Component Description: Mobilize crew to WNDU main tower </div> <div> Amount: \$172,500.00 </div>
	<div> Component Description: Mobilize crew to WNDU main tower (ASRN 1027596) and rig for top mounted antenna replacement </div> <div> Amount: \$57,500.00 </div>

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 Co. Justificati
Outside Professional Services	\$230,285.00	\$211,283.50		\$136,497.74	
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$373.50	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$373.50	Please see the submitted invoices.
Attorney Fees and Other Matters	<i>\$1,660.00</i>	\$1,660.00	N/A	\$971.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$125.00	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	\$325.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$290.50	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$1,327.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,621.74	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$1,660.00	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$121,584.50	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$700.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,144.00	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$700.00	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	\$250.00	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	\$800.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,625.00	N/A
Sub-total	\$230,285.00	\$211,283.50	N/A	\$136,497.74	N/A
Total for all systems	\$7,864,358.34	\$6,541,722.99	N/A	\$4,031,240.55	N/A

Components

Actual Information	
Description	File Name
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description:
	WNDU-550-Attorney Fees - STA
	Amount:
	\$373.50
	Component Description:
	WNDU-550-Attorney fees STA
	Amount:
	\$332.00

Attorney Fees and Other Matters	Component Description: Amount:	Legal Services \$83.00
	Component Description: Amount:	Total Professional Services \$222.00
	Component Description: Amount:	Legal services \$666.00
	Component Description: Amount:	Total Professional Services \$370.00
RF Exposure Measurements	Component Description: Amount:	Consulting Engineer \$125.00
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description: Amount:	Provide response to FAA project status request \$325.00
ASR modification (prepare FCC Form 854)	Information not provided.	
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
NEPA Section 106 environmental review, if needed	Information not provided.	

<p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p>	<table> <tr> <td data-bbox="694 87 1093 235">Component Description:</td><td data-bbox="1093 87 1428 235">For Professional Services Rendered</td></tr> <tr> <td data-bbox="694 235 1093 347">Amount:</td><td data-bbox="1093 235 1428 347">\$290.50</td></tr> </table>	Component Description:	For Professional Services Rendered	Amount:	\$290.50				
Component Description:	For Professional Services Rendered								
Amount:	\$290.50								
<p>Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application</p>	<table> <tr> <td data-bbox="694 347 1093 571">Component Description:</td><td data-bbox="1093 347 1428 571">WNDU-550-Attorney fees 2100 CP application (aux)</td></tr> <tr> <td data-bbox="694 571 1093 705">Amount:</td><td data-bbox="1093 571 1428 705">\$124.50</td></tr> <tr> <td data-bbox="694 705 1093 840">Component Description:</td><td data-bbox="1093 705 1428 840">Professional Services</td></tr> <tr> <td data-bbox="694 840 1093 896">Amount:</td><td data-bbox="1093 840 1428 896">\$1,327.50</td></tr> </table>	Component Description:	WNDU-550-Attorney fees 2100 CP application (aux)	Amount:	\$124.50	Component Description:	Professional Services	Amount:	\$1,327.50
Component Description:	WNDU-550-Attorney fees 2100 CP application (aux)								
Amount:	\$124.50								
Component Description:	Professional Services								
Amount:	\$1,327.50								

Perform engineering study for new channel assignment and antenna development	Component Description: Perform engineering study for new channel assignment Amount: \$1,950.00
	Component Description: Engineering Study for New Channel Assignment Amount: \$800.00
	Component Description: AM station measurements for impact of TV antenna installation Amount: \$1,746.74
	Component Description: Review technical details of alternate antenna proposal from RFS regarding top-mount on repack Ch-27. Amount: \$125.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	Component Description: WNDU-TV (FID 41674) South Bend, IN Repack Amount: \$1,660.00
Project management of the transition	Component Description: Project Management Amount: \$2,725.85

Component Description:	Project Management
Amount:	\$3,630.15

Component Description:	Project Management
Amount:	\$4,083.75

Component Description:	Project management
Amount:	\$2,817.65

Component Description:	Project Management
Amount:	\$3,593.55

Component Description:	Project Management
Amount:	\$4,920.90

Component Description:	Project Management
Amount:	\$3,325.45

Component Description:	Project Management
Amount:	\$1,886.90

Component Description:	Project Management
Amount:	\$2,180.90

Component Description:	Project Management
Amount:	\$3,620.95

Component Description:	Project Management
Amount:	\$3,465.55

Component Description:	Project Management
Amount:	\$2,472.50

Component Description:	Project Management
Amount:	\$2,594.50

Component Description:	Project Management
Amount:	\$5,859.45

Component Description:	Project Management
Amount:	\$2,903.55

Component Description:	Project Management
Amount:	\$4,104.40

Component Description:	Project management
Amount:	\$2,471.90

Component Description:	Project managment
Amount:	\$1,553.55

Component Description:	Project Management
Amount:	\$3,752.30

Component Description:	Project Management
Amount:	\$2,411.25

Component Description:	Project Management
Amount:	\$2,471.50

Component Description:	Project Management
Amount:	\$2,813.80

Component Description:	Project Management
Amount:	\$2,461.65

Component Description:	Project Management
Amount:	\$2,876.70

Component Description:	Project Management
Amount:	\$2,547.60

Component Description:	Project Management
Amount:	\$802.25

Component Description:	Project Management
Amount:	\$2,668.05

Component Description:	Project Management
Amount:	\$3,558.10

Component Description:	Project Management
Amount:	\$3,495.95

Component Description:	Project Management
Amount:	\$4,304.95

Component Description:	Project Management
Amount:	\$3,129.40

Component Description:	Project Management
Amount:	\$2,403.10

Component Description:	Project Management
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$3,645.85

Component Description:	Transition Related Project Management Costs
Amount:	\$4,050.00

Component Description:	Project Management
Amount:	\$2,463.50

Component Description:	Project Management
Amount:	\$755.80

	Component Description: Amount:	Project Management \$4,433.25
	Component Description: Amount:	Project Management \$1,813.95
	Component Description: Amount:	Project Management \$4,463.80
	Component Description: Amount:	Project Management \$2,022.10
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Regarding buildout of repack Ch-27 main antenna facility \$700.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	For Professional Services Rendered \$947.50
	Component Description: Amount:	WNDU-550- Attorney fees 2100 CP application (main) \$577.50
	Component Description: Amount:	Complete and file repack CP application \$196.50

Prepare request for Special Temporary Authorization	<p>Component Description:</p> <p>Develop final technical parameters for interim broadband antenna on pre-auction Ch-42 for use during transition.</p> <p>Amount:</p> <p>\$700.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	<p>Component Description:</p> <p>Regarding buildout of repack Ch-27</p> <p>Amount:</p> <p>\$250.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<p>Component Description:</p> <p>Develop final technical parameters for auxiliary antenna</p> <p>Amount:</p> <p>\$800.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p>Component Description:</p> <p>FCC CP application</p> <p>Amount:</p> <p>\$1,625.00</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	\$113,322.00	\$104,622.00		\$50,043.23	
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	see Estimated Cost Justification WNDU-610-MVPD Notifications v0	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	<i>\$11,500.00</i>	\$11,500.00	N/A	\$222.00	N/A
Equipment Storage	<i>\$6,140.00</i>	\$6,140.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$8,929.00</i>	\$8,929.00	N/A	\$8,929.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$43,733.00</i>	\$43,733.00	See attached Comark quote P#4034WNDU-PARLX-170530 for disposal costs for existing main and auxiliary transmitters See attached TecServ quote for removal & disposal of transmitter coolant	\$28,572.00	N/A

FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$735.00	see Estimated Cost Justification WNDU-610-STA FCC Filing Fees v2	\$335.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,260.00	N/A	\$4,260.00	N/A
AM Pattern Disturbance -- Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Impact study	\$7,890.00	\$7,000.00	A study will be require for each tower, the auxiliary tower and the primary tower @ \$3,500 per study.	\$5,725.23	N/A
Sub-total	\$113,322.00	\$104,622.00	N/A	\$50,043.23	N/A
Total for all systems	\$7,864,358.34	\$6,541,722.99	N/A	\$4,031,240.55	N/A

Components

Actual Information	
Description	File Name
MVPD Notification of Channel Change	Component Description: Legal services Amount: \$2,000.00
Develop and air announcement of upcoming channel change	Component Description: Legal services Amount: \$222.00

Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Amount:	WNDU Equipment Delivery \$4,910.95
	Component Description: Amount:	WNDU-610-Equipment Delivery \$892.90
	Component Description: Amount:	Equipment Delivery and Handling Charges \$3,125.15
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	WNDU-610-Disposal Costs \$2,857.20
	Component Description: Amount:	WNDU Disposal Costs \$15,714.60
	Component Description: Amount:	Disposal Costs (for equipment and other waste, net of any salvage value) \$10,000.20

FCC Filing Fees - Special Temporary Authorization request	<div> <div> Component Description: Amount: </div> <div> Total Professional Services \$135.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Joan Stewart - Filing Fees - WNDU-TV FCC STA Filing Fee. 05 /29/2019 \$200.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> WNDU-610-STA FCC Filing Fees \$400.00 </div> </div>
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	<div> <div> Component Description: Amount: </div> <div> Medical Notification \$4,260.00 </div> </div>
AM Pattern Disturbance -- Remedy	Information not provided.

AM Pattern Disturbance --
Impact study

Component Description:

MEASURE THE
DAYTIME MP'S

Amount:

\$1,733.60

Component Description:

Check phase
monitor and
power, measure
the daytime MP's,
measure the
nighttime MP's,
report

Amount:

\$2,145.31

Component Description:

As part of the
construction
Permit for WNDU

Amount:

\$1,846.32

**Cost
Information**

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$7,864,358.34	\$6,541,722.99	\$4,031,240.55

Reimbursement Status

Question	Response
The facility has ceased operating on its pre-auction channel.	No
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>Robert Folliard , III . <i>Assistant Secretary</i></p> <p>08/18/2020</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Robert Folliard , III . <i>Assistant Secretary</i></p> <p>08/18/2020</p>

Attachments