



(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 **01/22**
Submitted: **/2021**

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@widely.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)	Yes
	Power	300 kVA

	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
Site Survey	Basic site survey by GatesAir
Renovation	Necessary interior wall work for transmitter building
Transmitter Remote	Remote controls for transmitter
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 II Corrosion Risk Assessment	Level II Corrosion Risk Assessment
Level I Corrosion Risk Assessment	Level I Corrosion Risk Assessment

**Outside
Professional Services Costs**

Section	Question	Response
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.

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	\$1,909,792.84	\$1,355,224.84		\$1,333,793.19	
Ice shield	<i>\$2,634.34</i>	\$2,634.34	N/A	N/A	N/A
Transmitter Remote	<i>\$2,990.65</i>	\$2,990.65	N/A	\$0.00	N/A
Renovation	<i>\$29,591.50</i>	\$29,591.50	See Estimated Cost Justification WNDU-110-Building renovations New 1st Primary Transmitter V0	\$29,591.50	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
Site Survey	<i>\$22,456.60</i>	\$22,456.60	Please see Estimated Cost Justification WNDU-110-Basic Site Survey v0	\$21,542.96	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.	\$64,119.75	\$64,119.75	see Estimated Cost Justification WNDU-110-Electrical Service New 1st Primary Transmitter v0	\$64,053.24	N/A
Auxiliary Transmitter HPTV-PARLX-U32	\$2,005,700.00	\$1,527,460.60		\$1,357,535.18	
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	\$1,355,068.58	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$2,466.60	Please see DTVPros quote JEHQ1692-01	\$2,466.60	N/A
Internal RF System	\$140,000.00	\$140,000.00	N/A	N/A	N/A
Sub-total	\$3,915,492.84	\$2,882,685.44	N/A	\$2,691,328.37	N/A
Total for all systems	\$7,924,401.42	\$6,712,302.18	N/A	\$4,600,609.43	N/A

Components

Actual Information	
Description	File Name
Ice shield	Information not provided.
Transmitter Remote	<p>Component Description: Remote control New 1st Primary Transmitter</p> <p>Amount: \$2,842.77</p>

Renovation	Component Description:	Trane/American Standard Cooling Units
	Amount:	\$11,716.50
	Component Description:	Interior Wall Trim & Exterior Paint
	Amount:	\$15,000.00
	Component Description:	Excavate, remove & dispose of Sod & Soil to Depth of 8 in
	Amount:	\$2,875.00
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description:	System, WNDU U32 D27
	Amount:	\$124,800.25
	Component Description:	SYSTEM, WNDU U32 D27 PH2
	Amount:	\$657,004.36
	Component Description:	System, WNDU U32 D27 PH2
	Amount:	\$436,800.88

Site Survey		
	Component Description:	Site Survey
	Amount:	\$4,927.06
	Component Description:	WNDU-110-Basic Site Survey
	Amount:	\$1,328.60
	Component Description:	Basic Site Survey
	Amount:	\$7,307.30
	Component Description:	Site Survey
	Amount:	\$7,980.00

<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>	<table> <tr> <td>Component Description:</td><td>New Transmitters Phase II 75% Complete</td></tr> <tr> <td>Amount:</td><td>\$23,232.37</td></tr> <tr> <td>Component Description:</td><td>Add 1200A neutral per Quote #S21-1018</td></tr> <tr> <td>Amount:</td><td>\$25,813.75</td></tr> <tr> <td>Component Description:</td><td>Run code compliant power</td></tr> <tr> <td>Amount:</td><td>\$6,313.00</td></tr> <tr> <td>Component Description:</td><td>Install 480v power for Transmitter pumps</td></tr> <tr> <td>Amount:</td><td>\$950.00</td></tr> <tr> <td>Component Description:</td><td>New Transmitters Phase II</td></tr> <tr> <td>Amount:</td><td>\$7,744.12</td></tr> <tr> <td>Component Description:</td><td>Invoice zeroed out, to be resubmitted.</td></tr> <tr> <td>Amount:</td><td>N/A</td></tr> </table>	Component Description:	New Transmitters Phase II 75% Complete	Amount:	\$23,232.37	Component Description:	Add 1200A neutral per Quote #S21-1018	Amount:	\$25,813.75	Component Description:	Run code compliant power	Amount:	\$6,313.00	Component Description:	Install 480v power for Transmitter pumps	Amount:	\$950.00	Component Description:	New Transmitters Phase II	Amount:	\$7,744.12	Component Description:	Invoice zeroed out, to be resubmitted.	Amount:	N/A
Component Description:	New Transmitters Phase II 75% Complete																								
Amount:	\$23,232.37																								
Component Description:	Add 1200A neutral per Quote #S21-1018																								
Amount:	\$25,813.75																								
Component Description:	Run code compliant power																								
Amount:	\$6,313.00																								
Component Description:	Install 480v power for Transmitter pumps																								
Amount:	\$950.00																								
Component Description:	New Transmitters Phase II																								
Amount:	\$7,744.12																								
Component Description:	Invoice zeroed out, to be resubmitted.																								
Amount:	N/A																								
10 Ton system	Information not provided.																								
<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>	Information not provided.																								

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<div> Component Description: New Auxiliary Transmitter </div> <div> Amount: \$476,989.97 </div>
	<div> Component Description: 306 Commercial Chain Link </div> <div> Amount: \$875.99 </div>
	<div> Component Description: SYSTEM, WNDU U32 D42 PH1 </div> <div> Amount: \$134,954.25 </div>
	<div> Component Description: System, WNDU U32 D42 PH1 </div> <div> Amount: \$742,248.37 </div>
Transformer 3 phase/480v - 300 KVA	<div> Component Description: RTLSCR650-5 T/L A LENGTH UP TO 5' FIXED FLG 1 END </div> <div> Amount: \$2,466.60 </div>
Internal RF System	Information not provided.

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	\$321,432.72		\$289,866.18	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$15,321.60	See Estimated Cost Justification WNDU-210-Elbow complex New Primary Antenna V0	\$15,321.60	N/A
Sweep test of existing antenna	\$6,730.00	\$11,591.12	see Estimated Cost Justification WNDU-210-Sweep test New Primary Antenna v1	\$11,591.12	N/A
Top Plate Adapter	<i>\$19,520.00</i>	\$19,520.00	N/A	\$19,520.00	N/A
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	<i>\$275,000.00</i>	\$275,000.00	Catalog Cost	\$243,433.46	N/A

Auxiliary Antenna TUM-04-8 /32L-R-T-1	\$329,450.00	\$193,823.90		\$161,841.90	
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
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	\$10,214.40	See Estimated Cost Justification WNDU-250-Elbow complex Aux Antenna V0	\$10,214.40	N/A
Sub-total	\$643,000.00	\$515,256.62	N/A	\$451,708.08	N/A
Total for all systems	\$7,924,401.42	\$6,712,302.18	N/A	\$4,600,609.43	N/A

Components

Actual Information
Description

File Name

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)		
	Component Description:	WNDU-210-Elbow complex New
	Amount:	Primary Antenna \$2,553.60
	Component Description:	WNDU-210-Elbow complex New
	Amount:	Primary Antenna \$3,192.00
	Component Description:	WNDU-210-Elbow complex New
	Amount:	Primary Antenna \$2,553.60
	Component Description:	Elbow Complex New Primary
	Amount:	Antenna \$3,192.00
	Component Description:	Elbow complex, New Primary
	Amount:	Antenna \$3,830.40

Sweep test of existing antenna

Component Description: WNDU-210-Sweep test New Primary Antenna
Amount: \$1,280.00

Component Description: Sweep Test
Amount: \$5,191.12

Component Description: WNDU-210-Sweep test New Primary Antenna
Amount: \$1,600.00

Component Description: Sweep Test New Primary Antenna
Amount: \$1,600.00

Component Description: Sweep test, New Primary Antenna
Amount: \$1,920.00

Top Plate Adapter		
	Component Description:	Top plate adapter, New Primary Antenna
	Amount:	\$5,856.00
	Component Description:	WNDU-210-Top plate adapter New Primary Antenna
	Amount:	\$4,880.00
	Component Description:	Top Plate Adapter New Primary Antenna
	Amount:	\$4,880.00
	Component Description:	WNDU-210-Top plate adapter New Primary Antenna
	Amount:	\$3,904.00

UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	Component Description:		UHF-HIGH POWER TOP MOUNT (200-1000KW)
	Amount:		\$56,429.99
	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
	Component Description:		UHF-HIGH POWER TOP MOUNT (200-1000KW)
	Amount:		\$62,857.49

Sweep test of existing antenna

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

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

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

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

Top Plate Adapter	<table> <tr> <td data-bbox="711 174 1018 208">Component Description:</td><td data-bbox="1153 174 1366 286">WNDU-250-Top plate adapter New Auxiliary Antenna</td></tr> <tr> <td data-bbox="711 297 820 331">Amount:</td><td data-bbox="1153 297 1270 331">\$3,904.00</td></tr> <tr> <td data-bbox="711 432 1018 465">Component Description:</td><td data-bbox="1153 432 1366 544">Auxiliary/Interim Antenna Top Plate Adapter</td></tr> <tr> <td data-bbox="711 555 820 589">Amount:</td><td data-bbox="1153 555 1270 589">\$4,880.00</td></tr> <tr> <td data-bbox="711 689 1018 723">Component Description:</td><td data-bbox="1153 689 1366 801">Auxiliary/Interim Antenna Top Plate Adapter</td></tr> <tr> <td data-bbox="711 813 820 846">Amount:</td><td data-bbox="1153 813 1270 846">\$4,880.00</td></tr> <tr> <td data-bbox="711 947 1018 981">Component Description:</td><td data-bbox="1153 947 1366 1059">Auxiliary/Interim Antenna Top Plate Adapter</td></tr> <tr> <td data-bbox="711 1070 820 1104">Amount:</td><td data-bbox="1153 1070 1270 1104">\$5,856.00</td></tr> </table>	Component Description:	WNDU-250-Top plate adapter New Auxiliary Antenna	Amount:	\$3,904.00	Component Description:	Auxiliary/Interim Antenna Top Plate Adapter	Amount:	\$4,880.00	Component Description:	Auxiliary/Interim Antenna Top Plate Adapter	Amount:	\$4,880.00	Component Description:	Auxiliary/Interim Antenna Top Plate Adapter	Amount:	\$5,856.00
Component Description:	WNDU-250-Top plate adapter New Auxiliary Antenna																
Amount:	\$3,904.00																
Component Description:	Auxiliary/Interim Antenna Top Plate Adapter																
Amount:	\$4,880.00																
Component Description:	Auxiliary/Interim Antenna Top Plate Adapter																
Amount:	\$4,880.00																
Component Description:	Auxiliary/Interim Antenna Top Plate Adapter																
Amount:	\$5,856.00																
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	<table> <tr> <td data-bbox="711 1238 1018 1272">Component Description:</td><td data-bbox="1153 1238 1345 1350">Auxiliary/Interim Antenna - Elbow Complex</td></tr> <tr> <td data-bbox="711 1361 820 1395">Amount:</td><td data-bbox="1153 1361 1270 1395">\$3,192.00</td></tr> <tr> <td data-bbox="711 1496 1018 1529">Component Description:</td><td data-bbox="1153 1496 1345 1608">Auxiliary/Interim Antenna - Elbow Complex</td></tr> <tr> <td data-bbox="711 1619 820 1653">Amount:</td><td data-bbox="1153 1619 1270 1653">\$3,192.00</td></tr> <tr> <td data-bbox="711 1753 1018 1787">Component Description:</td><td data-bbox="1153 1753 1345 1865">Auxiliary/Interim Antenna Elbow Complex</td></tr> <tr> <td data-bbox="711 1877 820 1910">Amount:</td><td data-bbox="1153 1877 1270 1910">\$3,830.40</td></tr> </table>	Component Description:	Auxiliary/Interim Antenna - Elbow Complex	Amount:	\$3,192.00	Component Description:	Auxiliary/Interim Antenna - Elbow Complex	Amount:	\$3,192.00	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																
Component Description:	Auxiliary/Interim Antenna Elbow Complex																
Amount:	\$3,830.40																

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	\$176,027.21		\$176,027.15	
Rigid Transmission Line - copper, 6 1/8"	\$209,070.00	\$176,027.21	Please see Estimated Cost Justification WNDU-310-New Primary Transmission Line V0	\$176,027.15	N/A
Auxiliary Transmission Line	\$241,280.00	\$211,173.31		\$211,173.31	
Rigid Transmission Line - copper, 6 1/8" broadband	\$241,280.00	\$211,173.31	per Estimated Cost Justification WNDU-350-New Auxiliary Transmission Line V0	\$211,173.31	N/A
Sub-total	\$450,350.00	\$387,200.52	N/A	\$387,200.46	N/A
Total for all systems	\$7,924,401.42	\$6,712,302.18	N/A	\$4,600,609.43	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line - copper, 6 1/8"		
	Component Description:	WNDU-310-New Primary Transmission Line
	Amount:	\$38,025.31
	Component Description:	New Primary Transmission Line
	Amount:	\$38,025.31
	Component Description:	WNDU-310-New Primary Transmission Line
	Amount:	\$54,346.15
	Component Description:	New Primary Transmission Line
	Amount:	\$45,630.38

Rigid Transmission Line -
copper, 6 1/8" broadband

Component Description:

WNDU-350-New
Auxiliary
Transmission Line

Amount:

\$52,780.23

Component Description:

WNDU-350-New
Auxiliary
Transmission Line

Amount:

\$6,629.58

Component Description:

Interim
Transmission Line

Amount:

\$56,911.32

Component Description:

Auxiliary/Interim
Transmission Line

Amount:

\$47,426.09

Component Description:

Auxiliary/Interim
Transmission Line

Amount:

\$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	\$1,251,450.00		\$427,840.10	
Tall Tower (greater than 500')	\$210,500.00	\$237,200.00	see Estimated Cost Justification WNDU-450-Tall Tower - Auxiliary Tower v1	\$237,200.00	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,000,000.00	N/A	\$177,140.10	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	\$1,333,270.50		\$406,850.25	
Tall Tower (greater than 500')	\$210,500.00	\$319,183.00	Please see Estimated Cost Justification WNDU-410-Tall Tower - Existing Primary v0	\$309,129.00	N/A
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
Sub-total	\$2,562,250.00	\$2,584,720.50	N/A	\$834,690.35	N/A
Total for all systems	\$7,924,401.42	\$6,712,302.18	N/A	\$4,600,609.43	N/A

Components

Actual Information Description	File Name
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Tall Tower (greater than 500')		
	Component Description:	Aux TWR Rigging, Antenna
	Amount:	\$9,500.00
	Component Description:	Aux TWR Rigging, Antenna & Complete Feedline Removal
	Amount:	\$133,000.00
	Component Description:	AUX TWR Rigging, Antenna & Complete feedline removal
	Amount:	\$47,500.00
	Component Description:	Project Extra Costs
	Amount:	\$47,200.00

Serious tower reinforcement /modifications	Component Description: Amount:	Fabricate and purchase (18) tension rod diagonals \$42,151.11
	Component Description: Amount:	75% costs Tower Reinforcement /Modification on 840ft Tower (Auxiliary) \$79,771.50
	Component Description: Amount:	Tower reinforcement & design drawings Existing Auxiliary Tower \$2,750.00
	Component Description: Amount:	Tower Resocket on 840' Level 6 B&C Anchor Points \$19,407.74
	Component Description: Amount:	Tower Resocket on Level 6 B&C anchor points Auxiliary Tower \$6,469.25
	Component Description: Amount:	Tower Reinforcement /Modification of Auxiliary Tower \$26,590.50
Level 1 Foundation study	Information not provided.	

Structural engineering tower load study for well documented tower	Component Description:		Structural Analysis
	Amount:		\$2,250.00
	Component Description:		Structural Analysis of Auxiliary Tower
	Amount:		\$5,450.00
Corrosion analysis and ultrasound measurements	Component Description:		Corrosion inspection and Ultrasound measurements - Primary Tower
	Amount:		\$2,900.00
	Component Description:		Corrosion inspection and Ultrasound measurements of tower legs in preparation for design and application of reinforcing required for re-pack tower modifications.
	Amount:		\$2,900.00

Tall Tower (greater than 500')		
	Component Description:	Cost for crew
	Amount:	\$79,129.00
	Component Description:	Mobilize crew to WNDU main tower (ASRN 1027596) and rig for top mounted antenna replacement
	Amount:	\$57,500.00
	Component Description:	Mobilize crew to WNDU main tower
	Amount:	\$172,500.00

Serious tower reinforcement
/modifications

Component Description:

Perform sub-
surface soil
evaluation on
towers -
Mobilization

Amount:

\$5,696.50

Component Description:

Tower
reinforcement.
/Modifications-
Primary Tower

Amount:

\$18,761.31

Component Description:

Tower
reinforcement &
design drawings
Existing Primary
Tower

Amount:

\$2,750.00

Component Description:

Perform sub-
surface soil
evaluation on
towers - Laboratory
Services

Amount:

\$2,892.00

Component Description:

75% costs of
Tower
Reinforcement
/Modification on
945ft Tower
(Primary)

Amount:

\$56,283.94

Level II Corrosion Risk Assessment	<div> <div> Component Description: </div> <div> Corrosion inspection and Ultrasound measurements </div> </div> <div> Amount: </div> <div> \$2,750.00 </div>
Level I Corrosion Risk Assessment	Information not provided.
Structural engineering tower load study for well documented tower	<div> <div> Component Description: </div> <div> Structural Engineering Tower Load study - Primary Tower </div> </div> <div> Amount: </div> <div> \$5,450.00 </div> <div> <div> Component Description: </div> <div> Take measurements for tower modifications and record elevations </div> </div> <div> Amount: </div> <div> \$2,137.50 </div> <div> <div> Component Description: </div> <div> Structural Engineering Tower Load study </div> </div> <div> Amount: </div> <div> \$1,000.00 </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 Cost Justification
Outside Professional Services	\$230,285.00	\$226,744.10		\$166,445.84	
Attorney Fees and Other Matters	<i>\$1,660.00</i>	\$1,660.00	N/A	\$1,341.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$125.00	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$1,452.00	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
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$700.00	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
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	\$150,128.60	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$150,128.60	Please see submitted invoices
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
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$705.50	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$705.50	Please see the submitted invoices.

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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,721.50	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$700.00	N/A
Sub-total	\$230,285.00	\$226,744.10	N/A	\$166,445.84	N/A
Total for all systems	\$7,924,401.42	\$6,712,302.18	N/A	\$4,600,609.43	N/A

Components

Actual Information

Description

File Name

Attorney Fees and Other Matters	Component Description: Amount:	Total Professional Services \$370.00
	Component Description: Amount:	Legal Services \$83.00
	Component Description: Amount:	Total Professional Services \$222.00
	Component Description: Amount:	Legal services \$666.00
RF Exposure Measurements	Component Description: Amount:	Consulting Engineer \$125.00
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.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Component Description: Amount:	WNDU-550-Attorney fees 2100 CP application (aux) \$124.50
	Component Description: Amount:	Professional Services \$1,327.50

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Component Description: Regarding buildout of repack Ch-27 Amount: \$250.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Regarding buildout of repack Ch-27 main antenna facility Amount: \$700.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Develop final technical parameters for auxiliary antenna Amount: \$800.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: FCC CP application Amount: \$1,625.00

Perform engineering study for new channel assignment and antenna development	Component Description: AM station measurements for impact of TV antenna installation Amount: \$1,746.74
	Component Description: Engineering Study for New Channel Assignment Amount: \$800.00
	Component Description: Perform engineering study for new channel assignment Amount: \$1,950.00
	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 Managment Amount: \$5,214.55

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

Component Description:	Project Management
Amount:	\$755.80

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

Component Description:	Project Management
Amount:	\$6,440.35

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

Component Description:	Project Management
Amount:	\$6,675.45

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

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

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

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:	\$2,472.50

Component Description:	Project management
Amount:	\$4,242.60

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

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

Component Description:	Project Management
Amount:	\$2,022.10

Component Description:	Project Management
Amount:	\$28.20

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

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

Component Description:	Project Management
Amount:	\$4,463.80

Component Description:	Project Management
Amount:	\$5,971.15

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

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

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

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

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

Component Description:	Project Management
Amount:	\$4,433.25

Component Description:	Project Management
Amount:	\$2,725.85

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

Component Description:	Project Management
Amount:	\$1,813.95

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

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

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

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

Component Description:	Project Management
Amount:	\$802.25

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

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

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

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

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

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

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

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

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

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.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount: Component Description: Amount:	WNDU-550-Attorney fees STA \$332.00 WNDU-550-Attorney Fees - STA \$373.50
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	For Professional Services Rendered \$290.50
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount: Component Description: Amount: Component Description: Amount:	For Professional Services Rendered \$947.50 WNDU-550-Attorney fees 2100 CP application (main) \$577.50 Complete and file repack CP application \$196.50

Prepare request for Special Temporary Authorization	Component Description: Amount:	Develop final technical parameters for interim broadband antenna on pre- auction Ch-42 for use during transition. \$700.00
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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	\$123,023.58	\$115,695.00		\$69,236.33	
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>\$10,480.00</i>	\$10,480.00	Please see Estimated Cost Justification WNDU-610-Equipment Storage v0	\$10,480.00	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	\$735.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,260.00	N/A	\$4,260.00	N/A
AM Pattern Disturbance -- Impact study	\$7,890.00	\$8,361.42	See Estimated Cost Justification WNDU-610-AM Pattern Study v0	\$8,341.75	N/A
AM Pattern Disturbance -- Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	Estimated Cost Justification WNDU-610-License to Cover FCC Filing Fees v0	\$335.00	N/A
Equipment Delivery and Handling Charges	\$14,290.58	\$14,290.58	See Estimated Cost Justification WNDU-610-Equipment Delivery v0	\$14,290.58	N/A
Sub-total	\$123,023.58	\$115,695.00	N/A	\$69,236.33	N/A
Total for all systems	\$7,924,401.42	\$6,712,302.18	N/A	\$4,600,609.43	N/A

Components

Actual Information
Description

File Name

MVPD Notification of Channel Change	<div> <div>Component Description:</div> <div>Legal services</div> </div> <div> <div>Amount:</div> <div>\$2,000.00</div> </div>
Develop and air announcement of upcoming channel change	<div> <div>Component Description:</div> <div>Legal services</div> </div> <div> <div>Amount:</div> <div>\$222.00</div> </div>
Equipment Storage	<div> <div>Component Description:</div> <div>WNDU-610- Equipment Storage</div> </div> <div> <div>Amount:</div> <div>\$10,480.00 \$10,480.00</div> </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	<div> <div>Component Description:</div> <div>WNDU Disposal Costs</div> </div> <div> <div>Amount:</div> <div>\$15,714.60</div> </div> <div> <div>Component Description:</div> <div>Disposal Costs (for equipment and other waste, net of any salvage value)</div> </div> <div> <div>Amount:</div> <div>\$10,000.20</div> </div> <div> <div>Component Description:</div> <div>WNDU-610- Disposal Costs</div> </div> <div> <div>Amount:</div> <div>\$2,857.20</div> </div>

FCC Filing Fees - Special Temporary Authorization request	Component Description: Amount:	Total Professional Services \$135.00
	Component Description: Amount:	WNDU-610-STA FCC Filing Fees \$400.00
	Component Description: Amount:	Joan Stewart - Filing Fees - WNDU-TV FCC STA Filing Fee. 05 /29/2019 \$200.00
DTV Medical Facility Notification	Component Description: Amount:	Medical Notification \$4,260.00

AM Pattern Disturbance -- Impact study	<div data-bbox="699 174 1426 331"> <p>Component Description: As part of the construction Permit for WNDU</p> <p>Amount: \$1,846.32</p> </div> <div data-bbox="699 434 1426 546"> <p>Component Description: MEASURE THE DAYTIME MP'S</p> <p>Amount: \$1,733.60</p> </div> <div data-bbox="699 649 1426 882"> <p>Component Description: CALCULATE COORDINATES LOAD GPS DAY AND NIGHT MP POINTS</p> <p>Amount: \$2,616.52</p> </div> <div data-bbox="699 985 1426 1308"> <p>Component Description: Check phase monitor and power, measure the daytime MP's, measure the nighttime MP's, report</p> <p>Amount: \$2,145.31</p> </div>
AM Pattern Disturbance -- Remedy	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	<div data-bbox="699 1554 1426 1756"> <p>Component Description: Joan Stewart - Filing Fees - Filing fee for the WNDU-TV</p> <p>Amount: \$335.00</p> </div>

Equipment Delivery and Handling Charges	Component Description: "SHIPPING CHARGES - 63FT STRETCH TRAILER DELIVERY (ANTENNA) STORAGE CHARGES - 63FT STRETCH TRAILER STORAGE 27 WEEKS" Amount: \$5,361.58
	Component Description: WNDU-610-Equipment Delivery Amount: \$892.90
	Component Description: WNDU Equipment Delivery Amount: \$4,910.95
	Component Description: Equipment Delivery and Handling Charges Amount: \$3,125.15

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$7,924,401.42	\$6,712,302.18	\$4,600,609.43

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>01/22/2021</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>Robert Folliard , III . <i>Assistant Secretary</i></p> <p>01/22/2021</p>

Attachments