



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **71221** | Service: **DTV** | Call **WBRC** | Channel: **29 (UHF)** |
ID: | Sign:
File **0000025069**
Number:
FRN: **0018223693** | Date **04/07**
Submitted: **/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WBRC	4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (205) 322-6666	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>	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		Station has licensed aux line and antenna they will use as interim. Remove and replace top mounted antenna and connect to existing line. Station needs small rental interim transmitter while dual IOT is replaced due to building space considerations.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**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	DDT60KW2
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-100
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	62.9 kW
	Justification for New Transmitter	Existing IOT can not be retuned UBS document attached Headroom analysis attached

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	500 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A

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

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Primary Transmitter - Relocate HVAC Condenser	Relocate HVAC Condenser
Primary Transmitter - Install and Deinstall	Deinstallation of prior transmitter and installation of new transmitter

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30 kW
	Justification for New Transmitter	interim rental while existing is removed and replaced due to building space considerations Existing 1kw transmitter insufficient as interim and being replaced.

**Interim
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	Electrical drawings, labor, and other electrical expenses related to the interim transmitter
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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description
Interim Transmitter Installation	Interim Transmitter Installation

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	Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TFU-30DSC RO4
Year	2006

**Auxiliary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	609.0 kW
	Manufacturer	

Model	TFU-30DSC Ch-29
Year	2020
Justification for New Antenna	Existing Aux antenna can not be retuned Aux licensed H-pol

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?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
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?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	912.0 kW

Manufacturer	
Model	TFU- 28GRTH /VP-R 06
Year	2003

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	609.0 kW
	Manufacturer	

Model	TFU-22GTH /VP-R-O6
Year	2019
Justification for New Antenna	Existing antenna can not be retuned Station licensed e-pol

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

**Primary
Antenna**

Other Antenna Cost Not Listed
Information not provided.

Transmission Line

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

Primary Transmission Line**Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1245 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Transmission Line - Additional Pieces	Additional pieces required to reuse transmission line

**Tower
Equipment
And
Rigging
Costs**

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

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	Terrain Constrained
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	No
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1007836
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	33° 29' 19.0" N-
	Longitude (NAD83)	086° 47' 58.0" W-
	Overall Structure Height	1041.98 feet
	Support Structure Height	984.24 feet

	Ground Elevation Above Mean Sea Level (AMSL)	1006.88 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	WBRC, LLC
	Date Constructed	01/01/1987

Other Types of Users

Users

WBHM-FM ID 4240

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Terrain constrained
Helicopter Services Required	Are helicopter services required?	Yes

Primary
Tower

Other Tower Expenses Not Listed

Name	Description
Tower Engineering Costs	Structural Engineering Tower Load Study

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	300
	Explanation	Pattern analysis Antenna Spec Transmitter Spec Building drawings Installation Supervision Accounting Internal Legal
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	No
	Quantity	N/A
	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	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Other Professional Services Expenses Not Listed
Professional Services Costs Services not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	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

Name	Description
Use Tax	Use tax paid to the State of Alabama Department of Revenue, City of Birmingham Department of Revenue, and Jefferson County Department of Revenue on costs relevant to the repack

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
Interim Transmitter ULXTE-60	\$996,470.33	\$1,147,938.53		\$1,122,321.58	
Interim Transmitter Installation	<i>\$9,470.33</i>	\$9,470.33	Please see WBRC Interim Transmitter Installation Budget Revision Justification Letter	\$9,457.79	N/A
Other Electrical Service: Electrical drawings, labor, and other electrical expenses related to the interim transmitter	<i>\$3,200.00</i>	\$3,200.00	Please see WBRC Interim Transmitter-Other Electrical Service Budget Revision Justification Letter	\$3,200.00	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	\$9,395.60	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$1,100,268.20	Please see Estimated Cost Justification WBRC-180-Interim Transmitter - UHF Liquid Cooled Solid State, 21-31 kW v0	\$1,100,268.19	N/A

Primary Transmitter ULXTE-100	\$3,523,627.87	\$2,280,019.48		\$2,240,203.21	
Primary Transmitter - Install and Deinstall	\$24,323.96	\$24,323.96	Please see Estimated Cost Justification WBRC-110-1st Primary Transmitter - Install and Deinstall v3	\$22,403.92	budget to be adjusted
Primary Transmitter - Relocate HVAC Condenser	\$8,637.00	\$8,637.00	Please see VULCAN HEATING & AIR CONDITIONING SERVICE, INC proposal dated 1-24-19	\$8,637.00	N/A
Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	\$9,764.80	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$0.00	included in primary transmitter estimated cost	\$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 62.9 kW	\$1,616,066.91	\$1,616,066.91	see Estimated Cost Justification WBRC-110-1st Primary Transmitter - UHF - Liquid Cooled Solid State Transmitter 62.9 kW v1	\$1,614,405.88	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$584,991.61	***System Notice: Estimate adjusted and locked because line has been superseded. ***Quote attached	\$584,991.61	N/A

Sub-total	\$4,520,098.20	\$3,427,958.01	N/A	\$3,362,524.79	N/A
Total for all systems	\$6,089,259.84	\$4,837,895.15	N/A	\$4,440,864.16	N/A

Components

Actual Information	
Description	File Name
Interim Transmitter Installation	<p>Component Description: Project Management</p> <p>Amount: \$9,457.79</p>
Other Electrical Service: Electrical drawings, labor, and other electrical expenses related to the interim transmitter	<p>Component Description: Project Management</p> <p>Amount: \$3,200.00</p>
Transformer 3 phase/480v - 300 KVA	<p>Component Description: WBRC-180-Interim Transmitter - 3 Phase, 480 V, 300 KVA Transformer</p> <p>Amount: \$6,354.60</p> <p>Component Description: WBRC-180-Interim Transmitter - 3 Phase, 480 V, 300 KVA Transformer</p> <p>Amount: \$3,041.00</p>

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW		
	Component Description:	ULXTE-60
	Amount:	\$147,597.65
	Component Description:	ULXTE-60
		Transmitter
	Amount:	\$359,844.85
	Component Description:	ULXTE-60
	Amount:	\$98,398.43
	Component Description:	Transmitter
	Amount:	\$494,427.26

Primary Transmitter - Install
and Deinstall

Component Description: "MTP1036 EG 3
HOLE ""L"" FLAT
PLATE FITTING"
Amount: \$1,221.69

Component Description: Service Call
Amount: \$15,600.00

Component Description: WBRC-110-1st
Primary
Transmitter -
Install and Deinstal
Amount: \$1,920.00

Component Description: HEATER
/KEROSENE
Amount: \$416.92

Component Description: Provided Material
and Labor to
relocate clean
agent piping in
data room for new
equipment to be
installed.
Amount: \$3,850.00

Component Description: MTP2226 EG 2-
sided long leg
wing fitting w
/gussets electro-
galv
Amount: \$1,186.04

Component Description: Tall Post Base for
1 5/8
Amount: \$129.27

Primary Transmitter - Relocate HVAC Condenser	<p>Component Description: Invoice for work performed at the location listed above.</p> <p>Amount: \$8,637.00</p>
Transformer 3 phase/480v - 500 KVA	<p>Component Description: WBRC-110-1st Primary Transmitter - 3 Phase, 480 V, 500 KVA Transformer</p> <p>Amount: \$1,148.80</p> <p>Component Description: WBRC-110-1st Primary Transmitter - 3 Phase, 480 V, 500 KVA Transformer</p> <p>Amount: \$8,616.00</p>
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 62.9 kW	<p>Component Description: A. Transmitter</p> <p>Amount: \$683,103.62</p> <p>Component Description: Transmitter</p> <p>Amount: \$924,372.26</p> <p>Component Description: contract price</p> <p>Amount: \$6,930.00</p>

UHF - Liquid Cooled Solid
State Transmitter 52 - 61 kW

Component Description: ULXTE-100-E
Amount: \$271,992.97

Component Description: Contract Price
Amount: \$20,790.00

Component Description: Contract Price
Amount: \$13,860.00

Component Description: Contract Price
Amount: \$41,580.00

Component Description: Contract Price
Amount: \$20,790.00

Component Description: Contract Price
Amount: \$20,790.00

Component Description: Invoice moved as
the category has
been superseded.
Amount: N/A

Component Description: UXLTE-100-E
Amount: \$181,328.64

Component Description: Contract Price
Amount: \$13,860.00

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-22GTH /VP-R-O6	\$296,230.00	\$221,735.50		\$219,500.49	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$215,335.50	Quote attached Station is licensed e-pol	\$213,100.49	N/A
Auxiliary Antenna TFU-30DSC Ch-29	\$208,749.00	\$208,159.00		\$195,040.50	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$640.00	N/A

UHF - High Power, Side Mount, basic slot antenna, 609 kW input, horizontally polarized	\$196,759.00	\$196,759.00	Quote attached H-pol only aux antenna	\$194,400.50	N/A
Sub-total	\$504,979.00	\$429,894.50	N/A	\$414,540.99	N/A
Total for all systems	\$6,089,259.84	\$4,837,895.15	N/A	\$4,440,864.16	N/A

Components

Actual Information	
Description	File Name
Sweep test of existing antenna	Component Description: Primary Antenna Sweep Test Amount: \$3,200.00
	Component Description: INCLUDES ONE FIELD ENGINEER Amount: \$960.00
	Component Description: WBRC-210- Primary Antenna - Sweep Test Amount: \$1,600.00
	Component Description: Primary Antenna Sweep Amount: \$640.00
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	

Component Description:	UHF- High Powered Top Mount
Amount:	\$21,533.55

Component Description:	WBRC-210- Primary Antenna - UHF High Power Top Mount, E-POL
Amount:	\$5,440.00

Component Description:	UHF - High power top mount; Elbow complex; EIA length; Reducer; Field engineer
Amount:	\$53,833.87

Component Description:	"Elbow complex, single channel, at antenna input, per 6-1/8"" feedline (if needed) ELBOW COMPLEX 6-1/8"" 75 OHM CH 29 WBRC"
Amount:	\$12,715.50

Component Description:	UHF - High Power Top Mount, EIA length, Elbow complex, Reducer, Field engineer
Amount:	\$107,667.75

Component Description:	UHF - HIGH POWER TOP MOUNT (200 -1,000 KW)
Amount:	\$11,909.82

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Sweep test of existing antenna	Component Description: Amount:	Auxiliary Antenna - Sweep Test \$640.00
UHF - High Power, Side Mount, basic slot antenna, 609 kW input, horizontally polarized	Component Description: Amount: Component Description: Amount: Component Description: Amount:	UHF - Lower Power Side Mount Horizontally Polarized Side Mount Ant \$162,309.10 ELBOW COMPLEX, SINGLE CHANNEL AT ANTENNA INPUT \$12,415.50 UHF Lower Power Side Mount \$19,675.90

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	\$7,022.04	\$7,022.04		\$6,534.40	
Transmission Line - Additional Pieces	<i>\$7,022.04</i>	\$7,022.04	Please see Estimated Cost Justification WRBC-310-Primary Transmission Line - Additional Pieces v0	\$6,534.40	N/A
Sub-total	\$7,022.04	\$7,022.04	N/A	\$6,534.40	N/A
Total for all systems	\$6,089,259.84	\$4,837,895.15	N/A	\$4,440,864.16	N/A

Components

Actual Information	
Description	File Name

Transmission Line -
Additional Pieces

Component Description: T/L 6-50 EIA
LENGTH 5' TO
10' FIXED FLG 1
END/ SWIVEL
FLG 1 END
Amount: \$1,820.24

Component Description: T/L 8-75 EIA
LENGTH 10' TO
15' FIXED FLG
Amount: \$2,235.00

Component Description: Transformer 6-50
/6-75 UHF 3 ST
Amount: \$1,798.80

Component Description: AL Sales Tax
Amount: \$680.36

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$668,150.00	\$500,100.00		\$348,750.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$281,750.00	Please see Estimated Cost Justification WBRC-410- Existing Primary Tower - Tower Rigging, Complex Tower V1	\$266,150.00	N/A
Tower Engineering Costs	<i>\$6,500.00</i>	\$6,500.00	See Purchase Order RE-WBRC-5-23-17	\$3,250.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$5,500.00	N/A	\$5,500.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$17,500.00	N/A

Tower Helicopter Lift	\$56,350.00	\$56,350.00	Please see attached proposal Tower King C-19-008 and email	\$56,350.00	N/A
Sub-total	\$668,150.00	\$500,100.00	N/A	\$348,750.00	N/A
Total for all systems	\$6,089,259.84	\$4,837,895.15	N/A	\$4,440,864.16	N/A

Components

Actual Information	
Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description:
	Tower Service - Down payment and mobilization for the WBRC-TV repack antenna project
	Amount:
	\$73,544.60
	Component Description:
	Per Agreement for Post Transition work Remove Dielectric side mount antenna
	Amount:
	\$109,500.00
	Component Description:
	Final Billing for Completion of the project for the WBRC-TV Repack Antenna Project in Birmingham AL
	Amount:
	\$83,105.40

Tower Engineering Costs	<div> Component Description: Professional Engineering Services </div> <div> Amount: \$3,250.00 </div>
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<div> Component Description: Tower Service - Mapping of WBRC for Repack </div> <div> Amount: \$5,500.00 </div>
Minor tower reinforcement /modifications	<div> Component Description: WBRC-410- Existing Primary Tower-Minor Tower Reinforcement /Modifications </div> <div> Amount: \$17,500.00 </div>
Tower Helicopter Lift	<div> Component Description: WBRC-410- Existing Primary Tower -Tower Helicopter Lift </div> <div> Amount: \$29,894.60 </div> <div> Component Description: WBRC-410- Existing Primary Tower -Tower Helicopter Lift </div> <div> Amount: \$26,455.40 </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	\$159,215.00	\$250,925.00		\$114,746.95	
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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	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	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,125.00	N/A
Project management of the transition	\$47,400.00	\$144,675.00	Widely Strategic Support Quote	\$111,621.95	N/A

Sub-total	\$159,215.00	\$250,925.00	N/A	\$114,746.95	N/A
Total for all systems	\$6,089,259.84	\$4,837,895.15	N/A	\$4,440,864.16	N/A

Components

Actual Information Description	File Name
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: FCC Form 2100 Construction Permit Application Amount: \$2,000.00
Perform engineering study for new channel assignment and antenna development	Component Description: Engineering study work for new channel assignment and antenna development. Amount: \$125.00 Component Description: Engineering study work for new channel assignment and antenna development; Preparation of the engineering portion of FCC Form 2100 (90 day construction permit application). Amount: \$1,000.00 Component Description: WBRC-530-RF Eng - Engineering Study for New Channel Assignment Amount: \$375.00
Project management of the transition	Component Description: Project Management Amount: \$28.23

Component Description:	Project Management
Amount:	\$2,327.65

Component Description:	Project Management
Amount:	\$5,038.50

Component Description:	Project Management
Amount:	\$5,858.65

Component Description:	Project Management
Amount:	\$3,918.70

Component Description:	Project Management
Amount:	\$4,493.30

Component Description:	Project Management
Amount:	\$1,209.40

Component Description:	Project management
Amount:	\$8,752.60

Component Description:	Project Management
Amount:	\$2,583.70

Component Description:	WBRC-510- Project Management:
	\$754.60
Amount:	\$754.60

Component Description:	Project Management
Amount:	\$2,019.65

Component Description:	Project Management
Amount:	\$4,208.25

Component Description:	Project Management
Amount:	\$3,775.75

Component Description:	Project Management
Amount:	\$2,028.15

Component Description:	Project Management
Amount:	\$2,761.90

Component Description:	Project Management
Amount:	\$2,116.70

Component Description:	Project Management
Amount:	\$2,215.80

Component Description:	Project Management
Amount:	\$2,128.20

Component Description:	Project Management
Amount:	\$4,775.05

Component Description:	Project Management
Amount:	\$6,746.60

Component Description:	Project Management
Amount:	\$439.10

Component Description:	Project Management
Amount:	\$2,183.35

Component Description:	Project Management
Amount:	\$5,720.45

Component Description:	Project Management
Amount:	\$633.96

Component Description:	Project Management
Amount:	\$2,265.35

Component Description:	Project Management
Amount:	\$3,212.55

Component Description:	Project Management
Amount:	\$3,447.30

Component Description:	Project Management
Amount:	\$125.76

Component Description:	Project Management
Amount:	\$4,100.00

Component Description:	Project Management
Amount:	\$3,482.21

Component Description:	Project Management
Amount:	\$3,410.15

Component Description:	Project Management
Amount:	\$3,543.70

Component Description:	Project Management
Amount:	\$2,588.40

Component Description:	Project management
Amount:	\$2,650.25

Component Description:	Project Management
Amount:	\$2,290.95

Component Description:	Project Management
Amount:	\$7,269.30

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	\$229,795.60	\$221,995.60		\$193,767.03	
Equipment Storage	<i>\$30,500.00</i>	\$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	\$10,181.87	N/A
Equipment Delivery and Handling Charges	<i>\$19,849.33</i>	\$19,849.33	see Estimated Cost Justification WBRC-610- Equipment Delivery and Handling v1	\$19,849.33	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$1,599.16</i>	\$1,599.16	Please see Gray TV WBRC Disposal Costs Budget Justification Cover Letter	\$288.80	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	N/A	N/A
Use Tax	<i>\$163,447.11</i>	\$163,447.11	Please see WBRC Use Tax Budget Revision Justification Letter	\$163,447.03	N/A
MVPD Notification of Channel Change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	\$2,850.00	\$2,850.00	estimate for on air rescan announcement production. Quote attached	N/A	N/A
Sub-total	\$229,795.60	\$221,995.60	N/A	\$193,767.03	N/A
Total for all systems	\$6,089,259.84	\$4,837,895.15	N/A	\$4,440,864.16	N/A

Components

Actual Information	
Description	File Name

Equipment Storage

Component Description: Storage Container
/20'
Amount: \$109.14

Component Description: WBRC-610-
Equipment Storage
Amount: \$9,360.00

Component Description: Storage Container
/20'
Amount: \$109.14

Component Description: Storage Container
/20'
Amount: \$109.14

Component Description: STORAGE
CONTAINER/20'
Amount: \$109.14

Component Description: Storage Container
/20'
Amount: \$167.03

Component Description: Storage Container
/20'
Amount: \$109.14

Component Description: Storage Container
Amount: \$109.14

Component Description: STORAGE
CONTAINER
Amount: \$109.14

Equipment Delivery and
Handling Charges

Component Description:	Forklift rental
Amount:	\$2,879.45
Component Description:	T/L 8-75 EIA LENGTH 5' TO 10' FIXED FLG 1 END/ SWIVEL FLG 1 END
Amount:	\$3,990.70
Component Description:	FORKLIFT/RT /EXT REACH
Amount:	\$2,756.99
Component Description:	WBRC-610- Equipment Delivery and Handling
Amount:	\$4,568.64
Component Description:	WBRC-610- Equipment Delivery and Handling
Amount:	\$124.65
Component Description:	Forklift/RT/Ext Reach/8K
Amount:	\$2,764.45
Component Description:	FORKLIFT/RT /EXT
Amount:	\$2,764.45

Disposal Costs (for equipment and other waste, net of any salvage value)	<div> <div> Component Description: Amount: </div> <div> Oil Service/Stop Fee \$288.80 </div> </div> <div> <div> Component Description: Amount: </div> <div> Invoice to be resubmitted per NMI message. N/A </div> </div>
DTV Medical Facility Notification	Information not provided.
Use Tax	<div> <div> Component Description: Amount: </div> <div> Repack Use Tax \$163,447.03 </div> </div>
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$6,089,259.84	\$4,837,895.15
			\$4,440,864.16

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.

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.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Robert
Folliard , III**
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*Assistant
Secretary*

04/07/2021

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>04/07/2021</p>

Attachments