

Federal Communications Commission

# (REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: File Number:	71329 000002	Service: <b>DTV</b> 28727	Call Sign:	WDBJ	Channel: 30 (UHF)
	18223693	Date	06/30		
		Submitted:	/2020		

#### Applicant Name, Type, and Contact Information

#### Applicant Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WDBJ	WDBJ 4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (404) 504-9828	allfcclms@gray. tv	Limited Liability Company

#### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email
	Samuel Hariton Widelity	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

Broadcaster	Question	Response
Information and Transition Plan	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	WDBJ will be replacing the existing main transmitter, antenna, and transmission line.

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

Primary	Existing Transmitter Information				
Transmitter	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			
	Manufacturer and Type	Model	Sigma		
		Year	2000		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	46 kW		

# **Existing Transmitter Information**

Primary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Primary (Main)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	No			
		Manufacturer				
		Model	HPTV- PRLX-U32			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	55 kW			
		Justification for New Transmitter	Harris Sigma series IOT transmitters cannot be retuned, transmitter must be replaced.			

#### **Other Transmitter Costs**

Primary	Other Transmitter Costs				
Transmitter	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	Switch Support Frame and other electrical equipment for primary transmitter
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	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 leashold improvement?	Yes
	Size	400.0 square feet
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			
	Ice Bridge	Ice Bridge			
	Construction Existing	Existing building must be modified for new transmitter.			
	Interim Antenna RF Switch	Interim Antenna RF Switch			

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna Manufacturer and Type	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	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)	605.0 kW	

Manufacturer	
Model	TFU- 18GTH-R 04
Year	1999

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	No	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna Manufacturer and Types	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Elliptical	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels/Bays	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Design power capacity in use	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	1000.0 kW	
		Manufacturer		
			1	

Model	TFU-29JTI /VP-R 04
Year	2017
Justification for New Antenna	Repack will move WDBJ to channel 30 so the existing channel 18 antenna needs replaced.

# Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	
		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	7 3/16 inches inches
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

# Primary<br/>Antenna Other Antenna Cost Not Listed Name Description Top Plate Adapter Adapter for top of tower to match bolts on antenna

Interim Antenna	New Antenna Costs			
	Section	Question	Response	
	New Antenna Description	Use	Interim	
		Description of Use	N/A	
		Change Type	Purchase New	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	Yes	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna Manufacturer and Type	Class	Full Power	
		Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Broadband Panel	
		Number of Stations Supported	1	
		Number of Panels/Bays	8	
		Lower Limit	470.00 MHz	
		Upper Limit	700.00 MHz	
		Design power capacity in use	38.5 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	100.0 kW	
		Manufacturer		
		Model	SBB8C170	
		Year	2019	

Justification for New Antenna	Interim antenna required in order to remain on air during repack period. Antenna needed due to delays in tower work caused by
	needed due to delays in tower work

# Other Antenna Costs

Interim Antenna

Section	Question	Response
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 an 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

# Interim Other Antenna Cost Not Listed

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

ransmissio	n 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	Manufacturer	
Line Manufacturer and Type		Туре	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	230 feet per run

# Primary Existing Transmission Line

Primary Transmissio	New Transmission Line			
	n 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	
		Туре	Rigid	
		Diameter	7 3/16 inches	
		Other Diameter	N/A	
		Segment Length	19 1/2 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	230 feet per run	
		Justification for New Transmission Line	Utilizing existing antenna during build- out of new transmitter /antenna system. New transmission line needed.	

Other Transmission Line Expenses Not Listed Transmission

Interim Transmissio	New Transmission Line		
	n Section	Question	Response
	New Transmission Line Costs	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Туре	Flexible Air
		Diameter	4 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
		Length	200 feet per run
		Justification for New Transmission Line	Interim line required for interim antenna. Antenna and line needed due to delays on tower work

Interim Other Transmission Line Expenses Not Listed

Transmission home tion not provided.

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

marv	Existing	Tower
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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?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	No	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1024378	
	Coordinates ( <u>NAD83</u> ( North American Datum of 1983))	Latitude (NAD83)	37° 11' 42.0" N-	
		Longitude (NAD83)	080° 09' 22.0" W-	
		Overall Structure Height	148.62 feet	
		Support Structure Height	77.10 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	3759.80 feet	

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Gray Television Group, Inc.
	Date Constructed	06/01/1965

## Tower Modification Costs

# Primary Tower

Tower

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:	Minor Reinforcements needed

# Primary Tower Rigging Costs

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

# Primary Other Tower Expenses Not Listed

**Tower** Information not provided.

Primary Tower	Add Tower			
	Section	Question	Response	
	Existing Tower Description	Type of change	Move Equipment	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Is this tower consider Complex?	No	
		Is this tower currently shared with any other stations?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	No	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1024378	
	Coordinates ( <u>NAD83</u> ( North American Datum of 1983))	Latitude (NAD83)	37° 11' 42.0" N-	
		Longitude (NAD83)	080° 09' 22.0" W-	
		Overall Structure Height	148.62 feet	
		Support Structure Height	77.10 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	3759.80 feet	
		Structure Type	TOWER - Free Standing or Guyed Structure	

Tower Owner	Gray Television Group, Inc.
Date Constructed	06/01/1965

# **Tower Rigging Costs** Primary Tower

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
Tower Structural Analysis	Structural Analysis required to determine that existing tower will not support proposed antenna and line

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Construct New	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Is this tower consider Complex?	No	
		Is this tower currently shared with any other stations?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	No	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1024378	
	Coordinates ( <u>NAD83</u> ( North American Datum of 1983))	Latitude (NAD83)	37° 11' 42.0" N-	
		Longitude (NAD83)	080° 09' 22.0" W-	
		Overall Structure Height	148.62 feet	
		Support Structure Height	77.10 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	3759.80 feet	
		Structure Type	TOWER - Free Standing or Guyed Structure	

Tower Owner	Gray Television Group, Inc.
Date Constructed	06/01/1965

Primary	Tower Construction Costs			
Tower	Section	Question	Response	
	Construct New Tower	Use	Primary (Main)	
		Description of Use	N/A	
		Is this a request for upgraded equipment?	No	
		Height	92.00 feet	
		Justification for New Tower	Existing tower failed structural analysis. It was determined to be more cost effective to construct a new tower rather than reinforce the existing.	

#### **Tower Rigging Costs** Primary

Tower	Section	Question	
	Tower Rigging Costs	Complex Tow	

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

# Other Tower Expenses Not Listed

Primary Tower Information not provided.

Outside Professional	Section	Question	Response
	I Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	900
		Explanation	Strategic Support
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		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	No
		For Main Facility	Yes
		Prepare and file Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes

	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	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	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

# Outside Other Professional Services Expenses Not Listed

Professional Services Costs	Description	
Attorney Fees - Other Matters	Legal Services	

Other	Section	Question	Response
Expenses	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	Yes
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	Yes
		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?	No
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

#### **Other Expenses Not Listed**

Other Expenses Not Listed			
Name Description	Description		
Antenna Structure Registration Announcement	Antenna structure registration announcement in local newspaper		
	Antenna Structure Registration		

# Transmitters

### Cost Information

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-PRLX- U32	\$2,165,512.84	\$1,842,059.91		\$1,691,592.69	
Interim Antenna RF Switch	\$43,150.00	\$43,150.00	Please see WDBJ Interim Antenna - RF Switch Revision Justification Cover Letter	\$43,150.00	N/A
Ice Bridge	\$7,940.00	\$7,940.00	Please see WDBJ Robertson Construction Ice Bridge Quote	\$7,940.00	N/A
Other Building Addition Size: 400.0	\$319,503.22	\$319,503.22	Per Blake Construction Quote	\$212,186.00	N/A
Other Electrical Service: Switch Support Frame and other electrical equipment for primary transmitter	\$1,246.78	\$1,246.78	see Estimated Cost Justification WDBJ-110- New 1st Primary Transmitter- Other Electrical Expenses V0	\$1,246.78	N/A

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,464,547.07	Estimated Cost Justification WDBJ-110- New 1st Primary Transmitter v1	\$1,421,397.07	N/A
Construction	\$5,672.84	\$5,672.84	N/A	\$5,672.84	N/A
Sub-total	\$2,165,512.84	\$1,842,059.91	N/A	\$1,691,592.69	N/A
Total for all systems	\$3,560,245.10	\$3,090,142.78	N/A	\$2,492,279.81	N/A

# Components

Actual Information Description	File Name	
Interim Antenna RF Switch		
	Component Description:	Motorized Switch Antenna for Interim Antenna
	Amount:	\$43,150.00
Ice Bridge		
	Component Description:	Candler's Mtn Ice Bridge
	Amount:	\$7,940.00

Other Building Addition Size: 400.0	Component Description: Amount:	Install Chain Link \$3,200.00
	Component Description:	WZBJ Construction quote / Task
	Amount:	completed 07/15/19 \$2,950.00
	Component Description:	WDBJ-110- Transmitter Bldg Addition 1st New
	Amount:	Primary Transmitter \$63,188.30
	Component Description:	WDBJ-110- Transmitter Bldg Addition 1st New
	Amount:	Primary Transmitter \$70,130.90
	Component Description:	WDBJ-110- Transmitter Bldg Addition 1st New
	Amount:	Primary Transmitter \$72,716.80
	Component Description:	WDBJ-110- Transmitter Bldg
	Amount:	Addition 1st New Primary Transmitter \$89,252.50

Other Electrical Service: Switch Support Frame and other electrical equipment for primary transmitter	Component Description: Amount:	SW-24P GIG Netgear \$297.00
	Component Description:	SHIP&HANDLE SWITCH SUPPORT FRAME MEGA
	Amount:	\$249.78
	Component Description:	Switch Support Frame. Mega Switch
	Amount:	\$700.00

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW

ESE ES 110 GPS **Component Description:** Based 10 MHz Frequency \$1,980.80 Amount: **Component Description:** SYSTEM, WDBJ U32 D30 **INSTALLATION 29-**50KW (TWO CABINETS) Amount: \$761,016.30 **Component Description: 1st Primary** Transmitter System Amount: \$484,283.10 **Component Description:** Freight Expensed -Prepaid Amount: \$750.27 **Component Description:** System, WDBJ U32 D30, Installation Amount: \$138,366.60 **Component Description:** This invoice has been moved to category Interim Antenna RF Switch Amount: N/A Electrical Work-**Component Description:** WDBJ7 Tower **Project Lynchburg** \$35,000.00 Amount:

Component Description:	Transmitter building project.
Amount:	\$2,305.98
Component Description:	Transmitter building
	project: Complete
	interior and exterior
	measurements of
	existing Facility.
	These docs wil be
	used for Permits
	needed for
	renovations to
	construct New
	Transmitter Room.
Amount:	\$3,366.86

#### Antennas

#### Cost Information

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 Antenna SBB8C170	\$96,130.00	\$52,158.40		\$6,400.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see DTVPros Invoice 356	\$6,400.00	N/A
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 100 horizontally polarized	\$0.00	\$0.00	Do not use - category added in error by LMS	N/A	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$45,758.40	Please see attached DTVPros Quote JEHQ1663- 01	N/A	N/A
Primary Antenna TFU-29JTH /VP-R 04	\$364,130.00	\$303,739.00		\$226,896.72	
Top Plate Adapter	\$54,000.00	\$54,000.00	DTVPros quote JEHQ1247- 04	N/A	N/A

needed)					
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$228,075.00	DTVPros quote JEHQ1247- 04	\$205,232.72	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Sub-total	\$460,260.00	\$355,897.40	N/A	\$233,296.72	N/A
Total for all systems	\$3,560,245.10	\$3,090,142.78	N/A	\$2,492,279.81	N/A

# Components

Actual Information Description	File Name	
Sweep test of existing antenna	Component Description: Amount:	Other Sweep \$6,400.00
UHF – Broadband Panel, Side Mount Auxiliary/Interim, 100 horizontally polarized	Information not provided.	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.	

Top Plate Adapter	Information not provided.	
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	WDBJ-210-Elbow complex New Primary Antenna
	Amount:	\$3,052.80
	Component Description:	WDBJ-210-Elbow complex New
	Amount:	Primary Antenna \$3,816.00
	Component Description:	WDBJ-210-Elbow complex New
	Amount:	Primary Antenna \$3,816.00
	Component Description:	WDBJ-210-Elbow complex New
	Amount:	Primary Antenna \$4,579.20

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	UHF High Power Top Mount \$43,787.12
	Component Description:	UHF-HIGH POWER TOP MOUNT (200-
	Amount:	1000KW) \$50,451.75
	Component Description:	UHF-HIGH POWER TOP MOUNT (200- 1000KW)
	Amount:	\$60,542.10
	Component Description:	UHF-High power top mount (200- 1000KW) TV ANT TFU 29JTH- VP-R 04
	Amount:	\$50,451.75

Sweep test of existing antenna		
antenna	Component Description:	WDBJ-210- Sweep test Nev
		Primary Antenna
	Amount:	\$1,920.00
	Component Description:	WDBJ-210-
		Sweep test New
		Primary Antenn
	Amount:	\$1,280.00
	Component Description:	WDBJ-210-
		Sweep test New
		Primary Antenn
	Amount:	\$1,600.00
	Component Description:	WDBJ-210-
		Sweep test New
		Primary Antenna
	Amount:	\$1,600.00

#### **Transmission Line**

#### Cost Information

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 Transmission Line	\$14,800.00	\$11,531.53		\$0.00	
Flexible Air Transmission Line - dielectric, 4"	\$14,800.00	\$11,531.53	Please see attached DTVPros Quote JEHQ1663- 01	N/A	N/A
Primary Transmission Line	\$66,700.00	\$109,842.30		\$109,066.27	
Rigid Transmission Line - copper, 7 3 /16"	\$66,700.00	\$109,842.30	see Estimated Cost Justification WDBJ-310- New Primary Transmission Line v0	\$109,066.27	N/A
Sub-total	\$81,500.00	\$121,373.83	N/A	\$109,066.27	N/A
Total for all systems	\$3,560,245.10	\$3,090,142.78	N/A	\$2,492,279.81	N/A

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 4"	Information not provided.

copper, 7 3/16"	Component Description:	WDBJ-310-New
		Primary Transmission Line
	Amount:	\$39,990.30
	Component Description:	WDBJ-310-New
		Primary
	Amount:	Transmission Line \$16,577.57
	Component Description:	WDBJ-310-New Primary
	Amount:	Transmission Line
	Amount:	\$16,577.57
	Component Description:	R62267 7" Hange
		Horizontal
	Amount:	\$3,709.12
	Component Description:	Elbow 350-Elbow
		3-50 EIA 6x6 CU
	Amount:	\$1,090.03
	Component Description:	WDBJ-310-New
		Primary
	A	Transmission Line
	Amount:	\$19,893.09
	Component Description:	45 Degree 6-50
		Elbow
	Amount:	\$11,228.59

## **Tower Equipment and Rigging Costs**

#### Cost Information

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	\$91,650.00	\$48,586.88		\$35,158.00	
Tower Structural Analysis	\$7,450.00	\$7,450.00	Please see attached All State Tower Proposal ZA073816	\$1,908.00	N/A
Short Tower (less than 500')	\$84,200.00	\$41,136.88	Per Blake Construction Quote - Demo 3 Legged Tower	\$33,250.00	N/A
Primary Tower TOWER	\$0.00	\$0.00		\$0.00	
Primary Tower TOWER	\$0.00	\$0.00		\$0.00	
Primary Tower	\$543,077.78	\$533,477.78		\$299,899.20	
New tower	\$446,277.78	\$446,277.78	Per Blake Construction Quote	\$273,016.20	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$3,000.00	***System Notice: Estimate adjusted and locked because line has been superseded.	\$3,000.00	N/A

Short Tower (less than 500')	\$84,200.00	\$84,200.00	N/A	\$23,883.00	N/A
Sub-total	\$634,727.78	\$582,064.66	N/A	\$335,057.20	N/A
Total for all systems	\$3,560,245.10	\$3,090,142.78	N/A	\$2,492,279.81	N/A

Actual Information Description	File Name	
Tower Structural Analysis		
	Component Description:	Job Completion -
		Roanoke, VA
	Amount:	\$1,908.00
Short Tower (less than 500')	Component Description:	General
		Conditions
	Amount:	\$33,250.00

New tower		
	Component Description:	Transmitter and
		Tower on Poor
		MT
	Amount:	\$97,628.65
	Component Description:	Transmitter and
	Component Decemption	Tower
	Amount:	\$62,442.55
	Component Description:	WDBJ-480-
		Construct New
	Amount:	Tower \$370.00
		ψ070.00
	Component Description:	WDBJ-480-New
		Tower
	Amount:	\$112,575.00
	Component Description:	Transmitter and
	component Description.	Tower on Poor
		MT
	Amount:	\$144,677.40
Structural engineering tower		
load study for well	Component Description:	AST to perform
documented tower		analysis on (1) 60'
		SS Tower utilizing
		VA PE
	Amount:	\$3,000.00
Short Tower (less than 500')		
	Component Description:	WDBJ-480-Short
		Tower (less than
		500')
	Amount:	\$23,883.00

## **Outside Professional Services**

#### Cost Information

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

Description Outside	Predetermined Cost Estimate \$184,620.00	Estimated Cost	Estimated Cost Justification	Actual Cost \$119,097.45	Actual Cost Justification
Professional Services	\$184,620.00	\$162,360.00		\$119,097.45	
Attorney Fees - Other Matters	\$610.00	\$610.00	see Estimated Cost Justification WDBJ-550- Attorney - Other Matters v0	\$610.00	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$2,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$1,000.00	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	\$83.00	N/A

- Prepare and FIG FCC Form 2100 (main), Construction Permit Application\$1,580.00\$1,500.00N/A\$350.00N APrepare engineering section of FCC Form 2100 (main), License to Cover Application\$1,580.00\$1,500.00N/A\$350.00N APrepare engineering section of FCC Form 2100 (main), License to Cover Application\$3,155.00\$3,000.00N/A\$2,062.50N APrepare engineering section of FCC Form 2100 (main), Construction Permit Application\$3,155.00\$3,000.00N/A\$2,062.50N APerform engineering study for new channel assignment and antenna development\$7,360.00\$7,000.00N/A\$5,475.00N AAddress transition timing and coordination issues w/ other stations and wireless\$2,630.00\$2,500.00N/A\$962.00N APrepare and or review reimbursement form\$2,630.00\$2,500.00N/A\$962.00N A						
engineering section of FCC Form 2100 (main), License to Cover Application Prepare \$3,155.00 \$3,000.00 N/A \$2,062.50 N engineering section of FCC Form 2100 (main), Construction Perform Application \$7,360.00 \$7,000.00 N/A \$5,475.00 N engineering study for new channel assignment and antenna development Address \$2,630.00 \$2,500.00 N/A \$962.00 N transition timing and coordination issues w/ other stations and wireless Prepare and or review reimbursement form Project \$142,200.00 \$135,000.00 N/A \$107,832.45 N	- Prepare and File FCC Form 2100 (main), Construction Permit	\$5,260.00	\$5,000.00	N/A	\$1,722.50	N/A
engineering section of FCC Form 2100 (main), Construction Permit Application Perform \$7,360.00 \$7,000.00 N/A \$5,475.00 N engineering study for new channel assignment and antenna development Address \$2,630.00 \$2,500.00 N/A \$962.00 N transition timing and coordination issues w/ other stations and wireless Prepare and \$2,630.00 \$2,500.00 N/A N/A N/A N or review reimbursement form Project \$142,200.00 \$135,000.00 N/A \$107,832.45 N	engineering section of FCC Form 2100 (main), License to Cover	\$1,580.00	\$1,500.00	N/A	\$350.00	N/A
engineering study for new channel assignment and antenna development Address \$2,630.00 \$2,500.00 N/A \$962.00 N transition timing and coordination issues w/ other stations and wireless Prepare and or review reimbursement form Project \$142,200.00 \$135,000.00 N/A \$107,832.45 N	engineering section of FCC Form 2100 (main), Construction Permit	\$3,155.00	\$3,000.00	N/A	\$2,062.50	N/A
transition timing and coordination issues w/ other stations and wireless Prepare and \$2,630.00 \$2,500.00 N/A N/A N/A N or review reimbursement form Project \$142,200.00 \$135,000.00 N/A \$107,832.45 N	engineering study for new channel assignment and antenna	\$7,360.00	\$7,000.00	N/A	\$5,475.00	N/A
or review reimbursement form Project \$142,200.00 \$135,000.00 N/A \$107,832.45 N management	transition timing and coordination issues w/ other stations	\$2,630.00	\$2,500.00	N/A	\$962.00	N/A
management	or review reimbursement	\$2,630.00	\$2,500.00	N/A	N/A	N/A
	management	\$142,200.00	\$135,000.00	N/A	\$107,832.45	N/A

Sub-total	\$184,620.00	\$162,360.00	N/A	\$119,097.45	N/A
Total for all systems	\$3,560,245.10	\$3,090,142.78	N/A	\$2,492,279.81	N/A

Actual Information Description	File Name	
Attorney Fees - Other Matters	Component Description: Amount:	Total Professional Services \$444.00
	Component Description: Amount:	Total Professional Services \$166.00
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 -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Professional Services \$83.00

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Professional Services \$740.00
	Component Description:	Repack CP application
	Amount:	\$786.00
	Component Description:	Complete and file first priority window construction permit filing for pop loss
	Amount:	\$196.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Buildout of repack CH-30 main antenna facility, develop final operating constants \$350.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepared engineering section for CP application \$2,062.50
Perform engineering study for new channel assignment and antenna development	Component Description:	Regarding repack Ch-30, review planned antenna specifications, provie comments and inquiry regarding tower height under construction. \$175.00
		· · · ·

Component Description: Amount:	Consulting Engineer \$175.00
Component Description: Amount:	Consulting Engineer - J. Davis. Develop technical parameters for interim antenna on repack Ch-30 for use during transition \$1,400.00
Component Description: Amount:	Perform engineering study for new channel assignment \$475.00
Component Description: Amount:	Conduct review of repacked channel assignment and implementation with prospective antenna, discuss results. \$1,875.00
Component Description: Amount:	Conduct channel study of post- auction CH 30 for expansion created by increased ERP. Prep of engineering portions of FCC CP- MOD application. \$1,375.00

Amount:transition logistics. \$962.00Prepare and or review reimbursement formInformation not provided.Project management of the transitionComponent Description: Amount:Project Management \$1,931.30Project management of the transitionComponent Description: Management \$28.20Project Management \$28.20Component Description: Manount:Project Management \$28.20Project Management \$28.20Component Description: Manount:Project Management \$3.020.65Project Management \$3.020.65Component Description: Amount:Project Management \$3.020.65Project Management \$4.813.15Component Description: Amount:Project Management \$4.813.15Project mgt \$4.982.95Component Description: Management Amount:Project mgt \$4.982.95Project mgt \$4.982.95	Address transition timing and coordination issues w/ other stations and wireless	Component Description:	Review linked set for WDBJ; work on coordination with linked group for
reimbursement form Project management of the transition Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Project Management Amount: Project Management S,742.10 Project Management Amount: S,742.10 Project Management Amount: Project Management Amount: Project Management Amount: Project Management Amount: Project Management Amount: Project Management Amount: Project Management Amount: Project Management Amount: Project Management Amount: Project Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management		Amount:	-
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Amount:Management \$4,813.15Component Description: Amount:Project mgt \$4,982.95Component Description:WDBJ-510-Project Management		Amount:	\$3,020.65
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Component Description: WDBJ-510-Project Management		Component Description:	Project mgt
Management		Amount:	\$4,982.95
-		Component Description:	
		Amount:	-

Component Description: Amount:	Project Management \$3,455.75
Component Description: Amount:	Project Management \$4,305.90
Component Description: Amount:	Project Management \$4,207.15
Component Description: Amount:	Project Management \$4,079.50
Component Description: Amount:	Project Management \$3,081.30
Component Description: Amount:	Project Management \$5,064.45
Component Description: Amount:	Project Management \$5,360.15
Component Description: Amount:	Project Management \$6,018.70
Component Description: Amount:	Project Management \$1,630.60

Component Description: Amount:	Project Management \$2,019.15
Component Description: Amount:	Project management \$2,397.65
Component Description: Amount:	Project management \$2,831.90
Component Description: Amount:	Project Management \$2,536.05
Component Description: Amount:	Project Management \$2,314.90
Component Description: Amount:	Transition Related Project Management Costs \$3,300.00
Component Description: Amount:	Project Management \$3,324.40
Component Description: Amount:	Project Management \$1,616.50
Component Description: Amount:	Project Management \$913.95

Component Description: Amount:	Project Management \$2,157.60
Component Description: Amount:	Project Management \$2,152.35
Component Description: Amount:	Project Management \$2,076.05
Component Description: Amount:	Project Management \$2,071.20
Component Description: Amount:	Project management \$2,116.05
Component Description: Amount:	Project Management \$2,654.70
Component Description: Amount:	Project Management \$1,668.75
Component Description: Amount:	Project Management \$2,619.80
Component Description: Amount:	Project Management \$802.25

Component Description: Amount:	Project Management \$733.30
Component Description: Amount:	Project Management \$1,863.20
Component Description: Amount:	Project Management \$2,373.10
Component Description: Amount:	Project Management \$1,895.60
Component Description: Amount:	Project Management \$2,322.15

## **Other Expenses**

### Cost Information

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 Cos Justificatio
Other Expenses	\$33,624.48	\$26,386.98		\$4,169.48	
Antenna Structure Registration Announcement	\$334.48	\$334.48	Antenna structure registration announcement in local paper.	\$334.48	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	see Estimated Cost Justification WDBJ-610- MVPD Notifications v0	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$6,800.00	\$6,800.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$1,300.00	\$1,300.00	Please see attached WDBJ Disposal Costs Budget Revision Justification Letter	\$1,300.00	N/A
Non-zoning permits	\$5,000.00	\$5,000.00	N/A	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$200.00	per Estimated Cost Justification WDBJ-610- STA FCC Filing Fees v0	\$200.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	see Estimated Cost Justification WDBJ-610- License to Cover FCC filing Fees v0	\$335.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,347.50	Justifying Quote WDBJ Widelity Medical Notification	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
Sub-total	\$33,624.48	\$26,386.98	N/A	\$4,169.48	N/A
Total for all systems	\$3,560,245.10	\$3,090,142.78	N/A	\$2,492,279.81	N/A

Actual Information Description	File Name	
Antenna Structure Registration Announcement	Component Description:	Antenna structure registration. Gives notice that on 09/13 /2017, it filed an application with the FCC
	Amount:	\$334.48

MVPD Notification of Channel Change	Component Description: Amount:	Professional Service \$2,000.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	TRANSPORTATION AND DISPOSAL OF DRUMS OF GLYCOL
	Amount:	\$1,300.00
Non-zoning permits	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Component Description: Amount:	WDBJ-610-STA FCC Filing Fees \$200.00
FCC Filing Fees - Form 2100 license to cover application	Component Description: Amount:	For Professional Services Rendered \$335.00
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,560,245.10	\$3,090,142.78	\$2,492,279.81

Reimbursem	enrestatus	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	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		<ol> <li>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.</li> <li>The above-named</li> </ol>	
		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).
- 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 Assistant Secretary 06/30/2020

#### Attachments