

(REFERENCE COPY - Not for submission)

#### FCC Form 399: Reimbursement Request

Facility 13989 Service: DTV Call WAVE Channel: 36 (UHF)

ID:

Sign:

File **0000025187** 

Number:

FRN: **0018223693** Date **07/13** 

Submitted: /2020

## Applicant Information

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

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WAVE TV	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 Contact Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email

The Preparer is same as the reimbursement contact.

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.	Yes
Briefly describe transition plan	Install interim antenna/ Line Remove top mounted antenna and install new antenna.  Connect to existing dual broadband lines Install new main and backup transmitters.  Combiner, Line, Antenna and tower systems cost divided 50% with WLKY

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

#### Auxiliary Transmitter

#### Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Emergency 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	
Manufacturer and Type	Model	Ranger
	Year	2009
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.1 kW

#### Auxiliary Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	UAXTE-2R 37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.2 kW
	Justification for New Transmitter	Existing transmitter can not be retuned EOL letter attached

#### Auxiliary 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	150 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
	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?	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

**Other Transmitter Cost Not Listed** 

Transmitter Information not provided.

#### Primary Transmitter

#### **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Sigma
	Year	2003
	Туре	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	30 kW

#### Primary Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30.05 kW
	Justification for New Transmitter	Existing transmitter can not be retuned 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	150 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
	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?	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
Transmitter Installation	Primary Transmitter Installation

#### **Antennas**

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

#### 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?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	51
	Design power capacity in use	50.0 %
	Lower Limit	545.00 MHz
	Upper Limit	695.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	ABBP14H4- HTOC5-26 /51
Year	2003

# Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
53939	WLKY

#### Primary Antenna

#### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	14
	Lower Limit	470.00 MHz
	Upper Limit	605.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	890.0 kW
	Manufacturer	

Model	TUM30-AP- S4-14/56H- R-2-T
Year	2019
Justification for New Antenna	Existing antenna can not be retuned Sweep data and ERI response attached

#### Primary Antenna

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
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?	
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

# Enter a list of RF channel numbers.

RF Channel Number	
14	
36	

#### Primary Antenna

#### **Other Antenna Cost Not Listed**

Information not provided.

#### 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?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	470.00 MHz
	Upper Limit	680.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	680.0 kW
	Manufacturer	
	Model	TFU-WB24
	Year	2019

Transition
side mount
antenna
needed to
enable
removal of
existing top
mount
antenna
and
installation
of new
repack
channel
capable
antenna.

#### Interim Antenna

#### **Other Antenna Costs**

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?	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	Yes
	transmission line and antenna?	

Interim Antenna **Other Antenna Cost Not Listed** 

Information not provided.

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

# Primary Existing Transmission Line Transmission Line

settion	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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Andrew
	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1000 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
53939	WLKY

#### Other Transmission Line Expenses Not Listed

Primary	Primary Primary		
Transmission	Name	Description	
	Transmission Line - Other Expenses Not Listed - Nitrogen for Transmission Line	Nitrogen required to dry transmission line	

#### Interim **Transmissi**

#### **New Transmission Line**

on Line Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	950 feet per run
	Justification for New Transmission Line	Interim during new antenna installation

Interim

Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

# Tower Equipment And Rigging Costs

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

#### Primary Tower

#### **Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	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	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1230057
Coordinates (NAD83 (	Latitude (NAD83)	38° 22' 08.4" N-
North American Datum of 1983))	Longitude (NAD83)	085° 49' 47.6" W-
	Overall Structure Height	960.95 feet
	Support Structure Height	899.92 feet
	Ground Elevation Above Mean Sea Level (AMSL)	982.93 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	P & B Towers LLC
Date Constructed	03/11/2015

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
53939	WLKY	DTV

#### 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:	Minor Reinforcements needed

#### Primary Tower

#### **Tower Rigging Costs**

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

#### Primary Tower

#### Other Tower Expenses Not Listed

Information not provided.

#### Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	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	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	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A

Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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	Yes
	Quantity	1
	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
Outside
Professional Services Expenses Not Listed
Professional Services © ostsided.

# 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
Security	Armed security provided by vendor to the equipment shelter site

# **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 Cos
Primary Transmitter ULXTE-50	\$1,048,738.00	\$1,091,850.25		\$943,765.75	
Transmitter Installation	\$37,988.00	\$37,988.00	Please see WAVE Primary Transmitter Installation Budget Revision Justification Letter	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$6,368.46	Per Estimated Cost Justification WAVE-110- 1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer v0 Per GatesAir Quote Q- 73547 (estimates is the quoted amount minus the amount already reimbursed under the primary transmitter	\$6,368.46	N/A

Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$1,011,193.79	see Estimated Cost Justification WAVE-110- 1st Primary Transmitter - UHF Liquid Cooled Solid State, 21-31 kW v0	\$937,397.29	N/A
Auxiliary Transmitter UAXTE-2R 37	\$189,750.00	\$120,866.80		\$55,884.20	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$60,266.80	Quote attached (GA- 00021721)	\$55,884.20	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
Sub-total	\$1,238,488.00	\$1,212,717.05	N/A	\$999,649.95	N/A

#### Components

Actual Information Description	File Name
Transmitter Installation	Information not provided.

150 KVA		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Component Description:	WAVE-110-1st
		Primary
		Transmitter - 3
		Phase, 480 V, 300
		KVA Transformer
	Amount:	\$3,883.21
	Component Description:	WAVE-110-1st
		Primary
		Transmitter - 3
		Phase, 480 V, 150
		KVA Transformer
	Amount:	\$2,485.25
Switchgear - industrial 800 amp	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW

Component Description: ULXTE-40 per

Quote Q-73547

**Amount:** \$87,716.71

Component Description: ULXTE-40

Transmitter per Quote Q-73547

**Amount:** \$131,575.06

**Component Description:** 

Amount:

Transmitter \$434,479.84

**Component Description:** Transmitter, Mask

Filter Saystem

**Amount:** \$210,382.52

**Component Description:** WAVE-110-1st

Primary

Transmitter - UHF Liquid Cooled Solid State, 21-31

kW

**Amount:** \$2,960.19

Component Description: ULXTE-40

**Amount:** \$70,282.97

Component Description: Percent of

contract amount

**Amount:** \$37,228.24

UHF - Air Cooled Solid State		
Transmitter 1 - 2.5 kW	Component Description:	Transmitter, Mask
		Filter Saystem,
		Electrical,
		Installation &
		Proof
	Amount:	\$7,891.62
	Component Description:	Transmitter
	Amount:	\$27,229.71
	Component Description:	UAXTE-2-E
		Transmitter
	Amount:	\$15,501.79
	Component Description:	UAXTE-2-E
	Amount:	\$5,261.08
Switchgear - industrial 800 amp	Information not provided.	
Transformer 3 phase/480v -	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
Interim Antenna TFU-WB24	\$157,180.00	\$156,850.00		\$6,400.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 680 kW input, directional,, horizontally	\$150,450.00	\$150,450.00	Dielectric quote attached	N/A	N/A
Primary Antenna TUM30-AP- S4-14/56H- R-2-T	\$984,930.00	\$1,161,200.47		\$378,126.78	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$126,000.00	\$139,350.00	Quote attached	N/A	N/A

New combiner, cost per channel (without antenna)       \$768,000.00       \$519,750         UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized       \$1,142,110.00       \$1,318,050         Total for \$3,361,860.43       \$3,636,583         all       \$3,361,860.43       \$3,636,583			
Power Top Mount (200- 1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized  Sub-total \$1,142,110.00 \$1,318,050  Total for \$3,361,860.43 \$3,636,588	0.47 Please see Estimated Cost Justification WAVE-210- Primary Antenna - New Combiner v0	\$378,126.78	N/A
<b>Total for</b> \$3,361,860.43 \$3,636,588	0.00 Please see WAVE Primary Antenna revised 700083CMZ- 3.pdf	N/A	N/A
. , , , , , , , , , , , , , , , , , , ,	50.47 N/A	\$384,526.78	N/A
systems	82.75 N/A	\$1,965,607.40	N/A

#### Components

Actual Information Description	File Name	
Sweep test of existing antenna	Component Description: Amount:	Repack Sweep \$6,400.00
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 680 kW input, directional,, horizontally polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	

Combiner output splitting /switching for dual feed lines, if applicable	Information not provided.	
New combiner, cost per channel (without antenna)	Component Description: Amount:	Combiner \$162,690.74
	Component Description: Amount:	Combiner \$52,745.30
	Component Description:	Combiner RF Accessories Stage 2,3,5 Services
	Amount:	\$162,690.74
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	Information not provided.	

## **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
Interim Transmission Line	\$220,400.00	\$141,311.80		\$438.77	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$220,400.00	\$141,311.80	Quote attached	\$438.77	N/A
Primary Transmission Line	\$285.38	\$285.38		\$285.38	
Transmission Line - Other Expenses Not Listed - Nitrogen for Transmission Line	\$285.38	\$285.38	see Estimated Cost Justification WAVE-310- Primary Transmission Line - Other Expenses Not LIsted - Nitrogen for Transmission Line v1	\$285.38	Invoices
Sub-total	\$220,685.38	\$141,597.18	N/A	\$724.15	N/A
Total for all systems	\$3,361,860.43	\$3,636,582.75	N/A	\$1,965,607.40	N/A

#### Components

Actual Information		
Description	File Name	

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

Component Description: Rent Cyl Ind Large

Acetylene

**Amount:** \$33.54

Component Description: Rent Cyl Ind Large

Acetylene

**Amount:** \$31.02

Component Description: Acetylene IND

**Amount:** \$173.51

**Component Description:** 9" dia x 8" thick

coredrill wall

**Amount:** \$250.00

Component Description: Cylinder Rental

(acetylene,

nitrogen, oxygen,

other)

**Amount:** \$36.88

Component Description: Nitrogen Industrial

200 CGA 580

**Amount:** \$163.82

Transmission Line - Other Expenses Not Listed -Nitrogen for Transmission Line

Component Description: "WAVE-310-

Primary

Transmission Line
- Other Expenses
Not Listed Nitrogen for

Transmission Line"

**Amount:** \$26.49

Component Description: Rent Cyl Ind Large

Nitrogen

**Amount:** \$70.91

Component Description: Nitrogen Industrial

200

**Amount:** \$84.43

Component Description: "WAVE-310-

Primary

Transmission Line
- Other Expenses
Not LIsted Nitrogen for

Transmission Line-

"

**Amount:** \$63.09

Component Description: WAVE-310-

Primary

Transmission Line
- Other Expenses
Not Listed Nitrogen for
Transmission Line

Hallollissic

**Amount:** \$40.46

### **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 GTOWER	\$495,100.00	\$661,776.00		\$465,438.50	
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$5,662.50	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Tower Helicopter Lift	\$114,000.00	\$114,000.00	Please see attached Tower King II, Inc. Proposal C- 19-010-2	\$114,000.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$385,776.00	Please See Estimated Cost Justification WAVE-410- Existing Primary Tower - Tower Rigging, Tall Tower v0	\$345,776.00	N/A
Sub-total	\$495,100.00	\$661,776.00	N/A	\$465,438.50	N/A
Total for all systems	\$3,361,860.43	\$3,636,582.75	N/A	\$1,965,607.40	N/A

#### Components

Actual Information Description	File Name	
Structural engineering tower load study for well documented tower	Component Description:	WAVE-410- Existing Primary Tower - Structural Engineering
	Amount:	Tower Load Study \$162.50
	Component Description:	Tower Service - Mapping of WAVE Tower for Repack
	Amount:	\$5,500.00
Minor tower reinforcement /modifications	Information not provided.	
Tower Helicopter Lift	Component Description	WAVE-410-
	Component Description:	Existing Primary Tower - Helicopter Lift-
	Amount:	\$28,450.00
	Component Description:	WAVE-410- Existing Primary Tower - Helicopter Lift-
	Amount:	\$43,500.00
	Component Description:	WAVE-410-
		Existing Primary Tower - Helicopter Lift
	Amount:	\$42,050.00

Tall Tower (greater than 500')	Component Description: Amount:	Tower Service \$71,550.00
	Component Description: Amount:	Tower service \$106,500.00
	Component Description: Amount:	Interim Antenna Installation \$29,851.00
	Component Description:	Customer deposit for Repack Interim Antenna Installation
	Amount:	Services \$34,925.00

**Component Description:** 

Amount:

Tower Service \$102,950.00

### **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	\$203,660.00	\$248,425.00		\$90,115.14	
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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$800.00	N/A

Total for all systems	\$3,361,860.43	\$3,636,582.75	N/A	\$1,965,607.40	N/A
Sub-total	\$203,660.00	\$248,425.00	N/A	\$90,115.14	N/A
Project management of the transition	\$94,010.00	\$144,675.00	Widelity Strategic Support Quote	\$82,885.97	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,108.34	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,950.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$370.83	N/A

### Components

Actual Information Description	File Name
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.

Information not provided.	
Information not provided.	
Component Description: Amount:	Consulting Engineer \$800.00
Component Description:	WAVE-530-RF Eng - License To Cover Application
Amount:  Component Description:	\$250.00  WAVE-530-RF Eng - License To Cover Application (Main)
Amount:	\$120.83
Component Description:	WAVE-530-RF Eng - Construction Permit Application
Amount:	\$700.00
Component Description:	FCC Form 2100 Construction Permit Application
Amount:	\$2,250.00
	Component Description: Amount:  Component Description:  Amount:  Component Description:  Amount:  Component Description:

**Component Description:** WAVE-530-RF

> Eng - Engineering Study for New Channel Assignment

\$158.34 Amount:

**Component Description:** Review various

materials

Amount: \$1,200.00

**Component Description:** Engineering study

> work for new channel

assignment and

antenna development

Amount: \$125.00

**Component Description:** WAVE-530-RF

> Eng - Engineering Study for New Channel Assignment

Amount: \$116.67

**Component Description:** Engineering study

> work for new channel

assignment and

antenna development;

\$250.00

**Component Description:** Engineering study

Amount:

work for new

channel

assignment and

antenna development

\$1,375.00 Amount:

Project management of the transition

**Component Description:** Project

Amount:

Management \$3,176.20

**Component Description:** 

Project Management

**Amount:** 

\$2,678.35

**Component Description:** 

Project Management

Amount:

\$2,145.70

**Component Description:** 

Project Management

Amount:

\$415.80

**Component Description:** 

Project

Amount:

Management \$4,748.75

**Component Description:** Project

Management

Amount: \$84.70

**Component Description:** 

Project Management

Amount: \$4,158.70

**Component Description:** 

Management

Project

\$3,158.80 Amount:

**Component Description:** Project

Management

Amount: \$5,274.65 Component Description: Project

Management

Amount:

\$338.81

**Component Description:** 

Project

Amount:

Management \$87.26

**Component Description:** 

Project

Amount:

Management \$3,777.30

**Component Description:** 

Project

**Amount:** 

Management \$3,614.95

**Component Description:** 

**Component Description:** 

Project

Amount:

Management \$6,604.75

Management

Amount:

\$1,965.45

Project

**Component Description:** 

Project

Amount:

Management \$2,713.15

**Component Description:** 

Project

Amount:

Management

\$2,963.45

**Component Description:** 

Project

Amount:

Management

\$4,216.85

**Component Description:** Project

Management

Amount:

\$1,463.00

**Component Description:** 

Project Management

Amount:

\$6,348.90

**Component Description:** 

Project

Amount:

Management \$3,544.40

**Component Description:** 

Repack Engineering

Amount:

\$795.15

**Component Description:** 

Project

management

Amount:

\$3,142.70

**Component Description:** 

Project

Management

Amount:

\$5,507.15

Component Description:

Project

Management

Amount:

\$4,384.10

**Component Description:** 

Project

Amount:

Management \$4,188.25

**Component Description:** 

Project

Management

Amount:

\$4,897.00

## **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 Cos
Other Expenses	\$61,817.05	\$54,017.05		\$25,152.88	
Disposal Costs (for equipment and other waste, net of any salvage value)	\$2,412.08	\$2,412.08	see Estimated Cost Justification WAVE-610- Disposal Costs v1	\$1,055.71	N/A
Security	\$3,386.26	\$3,386.26	Armed security provided by vendor to the equipment shelter site. Please see multiple invoices.	\$3,386.26	N/A
MVPD Notification of Channel Change	\$0.00	\$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
Equipment Storage	\$30,500.00	\$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	\$5,842.20	N/A

Equipment Delivery and Handling Charges	\$11,118.71	\$11,118.71	see Estimated Cost Justification WAVE-610- Equipment Delivery and Handling v1	\$11,118.71	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
Sub-total	\$61,817.05	\$54,017.05	N/A	\$25,152.88	N/A
Total for all systems	\$3,361,860.43	\$3,636,582.75	N/A	\$1,965,607.40	N/A

### Components

Actual Information Description	File Name	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:  Amount:	1 Waste Container 8 Cu Yd, 2 Lifts Per Week \$361.31
	Component Description:	VACUUM FEE WITH NO SOLIDS
	Amount:	\$694.40
	Component Description: Amount:	1 Waste Container \$711.08

Security		
	Component Description:	Guard Services
	Amount:	\$1,760.86
	Component Description: Amount:	Security Services \$1,625.40
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage		
	Component Description:	Sale 40 SC 1-
		Tripper
	Amount:	\$5,842.20

Equipment Delivery and		
Handling Charges	Component Description:	10K 55' CAB SHOOTING
		BOOM FORKLIFT
	Amount:	\$3,380.07
	Component Description:	15' Single Manlift
		S/P
	Amount:	\$914.64
	Component Description:	10K 55' shooting
		boom forklift
	Amount:	\$3,638.06
	Component Description:	1 Waste
		Container 6 Cu
	Amount:	Yd \$700.57
	Amount.	φ <i>1</i> 00.3 <i>1</i>
	Component Description:	15' SINGLE
	Amount	MANLIFT S/P
	Amount:	\$460.44
	Component Description:	15' SINGLE
	Amount:	MANLIFT S/P \$858.65
	Amount.	φοσο.σσ
	Component Description:	Single Manlift
	Amount:	\$1,166.28

**Component Description:** 

Amount:

Medical

\$3,750.00

Notification Mailing

Notification

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,361,860.43	\$3,636,582.75	\$1,965,607.40

Reimbursem	envestiatus	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

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.

- 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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

07/13/2020

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (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).

- 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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 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.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

07/13/2020

#### **Attachments**