

(REFERENCE COPY - Not for submission)

#### FCC Form 399: Reimbursement Request

Facility 6885 Service: DTV Call KWQC-TV Channel: 17 (UHF)

ID: Sign:

ID: File

0000028734

Number:

FRN: **0018223693** Date **11/15** 

Submitted: /2019

## Applicant Information

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

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (404) 504-9828	robert. folliard@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
Samuel Hariton Widelity	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

#### Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	KWQC will transition from channel 36 to 17 on a new existing tower. The transition will result in a new transmitter, antenna, and transmission line. The station will require an interim system to remain on the air.

#### **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	
Manufacturer and Type	Model	CD3260P2
	Year	2002
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

#### Primary Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	HPTV- PARL-U32
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	60 kW
	Justification for New Transmitter	Existing transmitter cannot be retuned.

#### Primary Transmitter

#### **Other Transmitter Costs**

Service Entrance (3 phases 800A 208V)	
Oct vice Entrance (5 phases 500A 200 v)	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
	Transformer (480V)  Power  Rigid Conduit and Wiring  Size  Length

	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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** 

**Transmitter** Information not provided.

#### Interim Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	EC706
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	4.9 kW
	Justification for New Transmitter	Needed to broadcast during transition

#### Interim Transmitter

#### **Other Transmitter Costs**

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

	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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
HVAC	Interim Transmitter HVAC

#### **Antennas**

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

#### **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?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	56
	Design power capacity in use	100.0 %
	Lower Limit	470.00 MHz
	Upper Limit	728.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TUF-04-14 /56H-1-TR
Year	2002

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

Facility ID	Call Sign
54011	KLJB

#### **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?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Side 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	
		'

Model	TFU-27JSC /VP-R-04
Year	2018
Justification for New Antenna	New antenna at alternate site

#### **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?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
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

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

Name	Description
V-Pol	Upgrade to primary 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?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
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	1
	Number of Panels/Bays	8
	Lower Limit	470.00 MHz
	Upper Limit	686.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	19.8 kW
	Manufacturer	
	Model	TFU-WB8-R
	Year	2018

Justification for New Antenna	Interim
	Broadcasting

#### Interim Antenna

#### **Other Antenna Costs**

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 Antenna

**Other Antenna Cost Not Listed** 

Information not provided.

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

#### **Existing Transmission Line**

#### Primary Transmission

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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1200 feet per run

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

Facility ID	Call Sign
54011	KLJB

#### **Primary**

#### **New Transmission Line**

Transmissio	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?	Yes
		Туре	Rigid
	Diameter	6 1/8 inches	
		Other Diameter	N/A
	Segment Length	19 1/2 inches	
		Other Segment Length	N/A
		Number of parallel runs	1
	Length	1310 feet per run	
	Justification for New Transmission Line	Need a new line for the new tower.	

Primary

Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

#### Interim

#### **New Transmission Line**

Transmissio	n Line Section	Question	Response
New Transmission Line	Use	Interim	
	Costs	Description of Use	N/A
	Change Type	Purchase New	
	Туре	Flexible Air	
	Diameter	3 inches	
	Segment Length	N/A	
	Other Segment Length		
	Number of parallel runs	1	
	Length	1100 feet per run	
	Justification for New Transmission Line	Needed for interim broadcasting	

**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

#### **Add Tower**

Section	Question	Response
Existing Tower	Type of change	Modify Existing
Description	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1035417
Coordinates (NAD83 (	Latitude (NAD83)	41° 32' 48.8" N-
North American Datum of 1983))	Longitude (NAD83)	090° 28' 37.8" W-
	Overall Structure Height	1381.22 feet
	Support Structure Height	1292.64 feet
	Ground Elevation Above Mean Sea Level (AMSL)	666.00 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Young /Coronet, A Joint Venture
Date Constructed	01/01/1982

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
13950	WHBF-TV	DTV
3242	WVIK	FM
60361	WLLR-FM	FM

#### Other Types of Users

Users	
Two-Way Radio	

#### 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:	No reinforcements needed

#### Primary Tower

#### **Tower Rigging Costs**

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

#### Primary Tower

#### Other Tower Expenses Not Listed

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	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	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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Other Professional Services Expenses Not Listed Professional Services (Costsided.

## Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	Yes
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	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?	No
	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

**Expenses** Information not provided.

## **Cost Information**

#### **Transmitters**

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

Description Interim Transmitter EC706	Predetermined Cost Estimate \$253,934.00	Estimated Cost \$215,138.81	Estimated Cost Justification	Actual Cost \$203,259.56	Actual Cost Justification
HVAC	\$7,484.00	\$7,484.00	Winter operation option added Including Tax	\$5,995.00	N/A
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	\$9,950.00	\$9,950.00	Quote 18- 9211 Decco Including tax	\$2,313.80	N/A

UHF - Air Cooled Solid State Transmitter 4 - 6 kW	\$236,500.00	\$197,704.81	per Comark Proposal P#4034R4- KWQC- PARLX- 180711 Includes remaining est taxes and delivery	\$194,950.76	N/A
Primary Transmitter HPTV-PARL- U32	\$1,875,050.00	\$1,314,682.73		\$1,296,833.78	
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	\$87,050.00	\$87,050.00	Decco 18- 9211 Including tax	\$72,586.20	X
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,227,632.73	per Comark Proposal P#4034R4- KWQC- PARLX- 180711 Includes remaining est taxes and delivery fees	\$1,224,247.58	N/A

Sub-total	\$2,128,984.00	\$1,529,821.54	N/A	\$1,500,093.34	N/A
Total for all systems	\$3,298,859.85	\$2,367,888.54	N/A	\$1,988,206.65	N/A

#### Components

Actual Information Description	File Name	
HVAC	Component Description: Amount:	Daikin Ductless A /C System \$5,995.00
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	Component Description:  Amount:	KWQC-180- Electrical Services New Interim Transmitter \$2,313.80
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	Component Description: Amount:	KWQC-180-New Interim Transmitter \$72,002.16
	Component Description: Amount:	KWQC-180-New Interim Transmitter \$19,159.20
	Component Description: Amount:	KWQC-180-New Interim Transmitter \$103,789.40

Other Electrical Service:
The new transmitter will
require reconfiguration of
the electrical service on
site. The electrical work
cost has been estimated
based on verbal guidance
from local electrical
contractors.

Component Description: Electrical work for

new transmitter at

Bettendorf

Transmitter Site

**Amount:** \$11,770.00

Component Description: Electrical work for

new transmitter at

Bettendorf

**Amount:** \$20,242.87

Component Description: Billing: 3-4-19 thru

4-1-19 Electrical work for new transmitter at Bettendorf

Transmitter Site.

**Amount:** \$15,963.33

Component Description: Electrical work for

new transmitter

**Amount:** \$24,610.00

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW

Component Description:

Amount:

Suppressor \$560.00

**Component Description:** 

KWQC, SYSTEM PRLX U32 D17

Amount:

\$446,726.85

**Component Description:** 

System PRLX U32

D17

Amount:

\$649,443.85

Component Description:

KWQC, SYSTEM PRLX U32 D17

INSTALLATION

**Amount:** \$127,516.88

## **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
Interim Antenna TFU-WB8-R	\$70,004.40	\$69,758.40		\$59,882.06	
UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 20 kW input, horizontally polarized	\$63,274.40	\$63,274.40	DTV Pros JEHQ1357- 01 Includes est tax and deliver fees	\$53,482.06	N/A
Sweep test of existing antenna	\$6,730.00	\$6,484.00	Including tax	\$6,400.00	N/A
Primary Antenna TFU-27JSC /VP-R-04	\$227,517.50	\$223,613.26		\$151,150.40	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	\$164,627.50	\$164,627.50	DTVPros JEHQ1286- 07 Includes est tax and delivery fees	\$118,600.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,848.00	Including tax	\$5,120.00	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$13,661.76	See attached DTVPros quote JEHQ1286- 07. Including tax	\$10,214.40	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$18,746.00	See attached DTVPros quote JEHQ1286- 07. Including tax	\$14,016.00	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$4,280.00	Per DTV Pros JEHQ1286- 07 Includes tax	\$3,200.00	N/A
V-Pol	\$15,450.00	\$15,450.00	See attached DTVPros quote JEHQ1286- 07.	N/A	N/A
Sub-total	\$297,521.90	\$293,371.66	N/A	\$211,032.46	N/A
Total for all systems	\$3,298,859.85	\$2,367,888.54	N/A	\$1,988,206.65	N/A

#### Components

Actual Information	
Description	File Name

UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 20 kW input, horizontally polarized

Component Description: UHF -

BROADBAND PANEL, SIDE MOUNT AUX /INTERIM

**Amount:** \$11,980.00

Component Description: UHF -

BROADBAND
PANEL, SIDE
MOUNT AUX
/INTERIM TV ANT

TFU WB8-R \$14,376.00

Component Description: UHF-

Amount:

BROADBAND PANEL, SIDE MOUNT AUX /INTERIM

**Amount:** \$15,146.06

Component Description: UHF Broadband

panel, side mount Aux/Interim TV Ant

TFU W88-R

**Amount:** \$11,980.00

Sweep test of existing		
antenna	Component Description:	KWQC Sweep
		Test for New
		Interim Antenna
	Amount:	\$1,600.00
	Component Description:	KWQC-280-Sweep
		test for New
		Interim Antenna
	Amount:	\$1,920.00
	Component Description:	KWQC-280-Sweep
		test for New
		Interim Antenna
	Amount:	\$1,280.00
	Component Description:	KWQC Sweep
		Test New Interim
		Antenna
	Amount:	\$1,600.00
UHF - High Power, Side		
Mount, basic slot antenna,	Component Description:	UHF - HIGH
1000 kW input, directional,,	Component Description.	POWER SIDE
elliptically or circularly		MOUNT
polarized	Amount:	\$37,062.50
		. ,
	Component Description:	UHF - HIGH
	Component Description.	POWER SIDE
		MOUNT
	Amount:	\$44,475.00
		Ç, <b>3.33</b>
	Component Description	UHF - HIGH
	Component Description:	
		DUIVIED GIVE
		POWER SIDE
	Amount:	POWER SIDE MOUNT \$37,062.50

antenna		
amonna	Component Description:	KWQC Sweep
		Test New Primary
	Amount:	Antenna \$1,600.00
	Amount.	\$1,000.00
	Component Description:	KWQC-210-Sweep
		test New Primary
		Antenna
	Amount:	\$1,920.00
	Component Description:	KWQC-210-Sweep
		test New Primary
		Antenna
	Amount:	\$1,600.00
Elbow complex, single		
channel, at antenna input,	<b>Component Description:</b>	KWQC Elbow
per 6 1/8. feedline (if needed)		Complex New
needed)		Primary Antenna
	Amount:	\$3,192.00
	Component Description:	KWQC-210-Elbow
	Component Description:	KWQC-210-Elbow complex New
	Component Description:	
	Component Description: Amount:	complex New
	Amount:	complex New Primary Antenna \$3,830.40
		complex New Primary Antenna \$3,830.40  KWQC-210-Elbow
	Amount:	complex New Primary Antenna \$3,830.40

Side mount brackets for high power antennas (if not included in antenna base	Component Description:	KWQC Side Mount
cost)		Brackets New
0001)		Primary Antenna
	Amount:	\$4,380.00
	Component Description:	KWQC-210-Side
		Mount Brackets
		New Primary
		Antenna
	Amount:	\$4,380.00
	Component Description:	KWQC-210-Side
		Mount Brackets
		New Primary
		Antenna
	Amount:	\$5,256.00
Pattern scatter analysis for		
side mount high/med power antennas (if not included in	Component Description:	KWQC Pattern
antenna base cost)		Scatter Analysis
amornia bado dodej		New Primary
		Antenna
	Amount:	\$1,000.00
	Component Description:	KWQC-210-
		Pattern Scatter
		Analysis New
		Primary Antenna
	Amount:	\$1,200.00
	Component Description:	KWQC-210-
		Pattern Scatter
		Analysis New
		Primary Antenna
	Amount:	\$1,000.00

#### **Transmission Line**

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

Decemention	Predetermined	Estimated	Estimated Cost	Actual Cont	Actual Cost
Description Interim	Cost Estimate	Cost	Justification	Actual Cost	Justification
Transmission Line	\$64,900.00	\$57,396.86		\$57,396.80	
Flexible Air Transmission Line - dielectric, 3"	\$64,900.00	\$57,396.86	\Estimated     Cost Justification KWQC-310- New Primary Transmission Line v0	\$57,396.80	N/A
Primary Transmission Line	\$264,620.00	\$0.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$264,620.00	\$0.00	see Justifying Quote KWQC-TV DTVPros quote JEHQ1286- 07A	N/A	N/A
Sub-total	\$329,520.00	\$57,396.86	N/A	\$57,396.80	N/A
Total for all systems	\$3,298,859.85	\$2,367,888.54	N/A	\$1,988,206.65	N/A

### Components

<b>Actual Information</b>	
Description	File Name

Flexible Air Transmission Line - dielectric, 3"		
	Component Description:	KWQC New
		Interim Transmission Line
	Amount:	\$11,095.12
	Amount	ψ11,093.12
	Component Description:	KWQC-380-New
		Interim
		Transmission Line
	Amount:	\$13,314.16
	Component Description:	Dehydrator
		1000TLS 115V
	Amount:	\$5,104.69
	Component Description:	KWQC-380-New
		Interim
		Transmission Line
	Amount:	\$15,257.66
	Component Description:	3.0" grounding kit
		w/60" lead, 2 hole
		crimp on
	Amount:	\$1,530.05
	Component Description:	KWQC New
		Interim
		Transmission Line
	Amount:	\$11,095.12
Rigid Transmission Line - copper, 6 1/8"	Information not provided.	

### **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	\$223,100.00	\$190,237.03		\$53,732.95	
Structural engineering tower load study for well documented tower	\$12,600.00	\$21,250.00	'Consolidated Engineers 2017-Gray- KWQC-0607- N	\$14,250.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$168,987.03	Installation of antennas and interim transmission line (includes tax)	\$39,482.95	N/A
Sub-total	\$223,100.00	\$190,237.03	N/A	\$53,732.95	N/A
Total for all systems	\$3,298,859.85	\$2,367,888.54	N/A	\$1,988,206.65	N/A

#### Components

Actual Information Description	File Name	
Structural engineering tower load study for well documented tower	Component Description: Amount:	Engineering Evaluation \$7,125.00
	Component Description: Amount:	Engineering Evaluation \$7,125.00

Tall Tower (greater than 500')

Component Description: Tower Equipment and Rigging

Amount: \$39,482.95

#### **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	\$193,960.00	\$183,962.50		\$85,878.15	
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$78,141.65	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,212.50	Per Estimated Cost Justification KWQC-530- RF Eng new channel study v0	\$7,212.50	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	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	\$524.00	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
Sub-total	\$193,960.00	\$183,962.50	N/A	\$85,878.15	N/A
Total for all systems	\$3,298,859.85	\$2,367,888.54	N/A	\$1,988,206.65	N/A

Description	File Name	
Project management of the		
transition	Component Description:	Transition Project Manageme
	Amount:	\$3,000.00
	Component Description:	Project Manageme
	Amount:	\$1,543.30
	Component Description:	Project Manageme
	Amount:	\$1,551.45
	Component Description:	Project
	Amount:	Managemo \$2,581.30
	Component Description:	Project
	Amount:	managemo \$2,667.65
	Component Description:	Project
	Amount:	Manageme \$28.20
	Component Description:	Project
	Amount:	Manageme \$2,244.80
	Component Description:	Project
		Manageme \$5,577.40

Component Description: Project

Management

**Amount:** \$3,377.30

**Component Description:** 

Project Management

Amount:

\$2,195.70

**Component Description:** 

Project

Amount:

Management \$1,642.75

**Component Description:** 

Project

Amount:

Management \$3,111.30

**Component Description:** 

Project

Amount:

Management \$4,943.25

**Component Description:** 

Project Management

Amount:

\$4,499.20

Component Description: Project

Management

Amount:

\$1,518.10

**Component Description:** 

Project

Amount:

management \$2,876.90

**Component Description:** 

Project

Amount:

Management

\$2,066.10

Component Description: Project

Management

Amount:

\$2,009.35

**Component Description:** 

Project Management

Amount:

\$1,928.85

**Component Description:** 

Project

Amount:

Management \$802.25

Project

**Component Description:** 

Management

Amount:

\$5,389.60

**Component Description:** 

Project

Amount:

Management

\$3,558.45

**Component Description:** 

Project

Amount:

Management \$3,377.30

**Component Description:** 

Project Management

Amount:

\$3,980.65

**Component Description:** 

Project Management

Amount:

\$1,831.85

**Component Description:** 

**Project** 

Amount:

management

\$1,366.05

**Component Description:** 

Project

Management \$2,364.40

**Component Description:** 

Project

Management

Amount:

Amount:

\$1,816.25

**Component Description:** 

Project

Management

Amount:

\$2,033.70

**Component Description:** 

Project

Management

Amount:

\$2,258.25

Attorney Fees - Prepare and File request for Special Temporary Authorization Information not provided.

for new channel	Component Descriptions	Antonno
assignment and antenna	Component Description:	Antenna configuration and
development		develop final ERF
		and parameters f
		initial CP
		application
	Amount:	\$3,512.50
	Component Description:	RF Consulting fee
	Amount:	\$562.50
	Commonant Decemention	KWOO 520 DE
	Component Description:	KWQC-530-RF Eng new channel
		study- \$650.00
	Amount:	\$650.00
	Component Description:	REview
		prospective
		reconfiguration ar
		reposition of FM
		station antenna
	Amount:	\$437.50
	Component Description:	Perform
		engineering study
		for new channel
		assignment
	Amount:	\$1,850.00
	Component Description:	Repack Ch-17
		remarks regarding
	Amount:	antenna proposal \$200.00
	, anounc	φ200.00
Prepare and or review reimbursement form	Information not provided.	

Prepare engineering section of FCC Form 2100 (main), Construction Permit	Information not provided.	
Application  Prepare engineering	Information not provided.	
section of FCC Form 2100 (main), License to Cover Application		
Prepare request for Special Temporary Authorization	Component Description:	Interim operation on pre-auction Ch- 36
	Amount:	\$1,025.00
RF Exposure Measurements	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description:	Research loss area consideration for CP application
	Amount:	\$327.50
	Component Description:	File 2100 CP application
	Amount:	\$196.50
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

#### **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	\$125,773.95	\$113,098.95		\$79,047.95	
MVPD Notification of Channel Change	\$1,200.00	\$1,200.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$16,050.00	\$16,050.00	N/A	\$14,445.00	N/A
Non-zoning permits	\$7,541.00	\$7,541.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	\$0.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	\$0.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,860.00	N/A	\$2,860.00	N/A

AM Pattern	\$21,050.00	\$17,120.00	N/A	N/A	N/A
Disturbance Remedy	Ψ21,000.00	ψ17,120.00	1 4// 1	1.471	14//1
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$11,935.00	\$11,935.00	***System Notice: Estimate adjusted and locked because line has been superseded.  ***	\$11,935.00	N/A
Reimbursable Sales Taxes	\$49,807.95	\$49,807.95	***System Notice: Estimate adjusted and locked because line has been superseded.  ***	\$49,807.95	N/A
Sub-total	\$125,773.95	\$113,098.95	N/A	\$79,047.95	N/A
Total for all systems	\$3,298,859.85	\$2,367,888.54	N/A	\$1,988,206.65	N/A

### Components

Actual Information Description	File Name
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.

Disposal Costs (for		
equipment and other waste,		
net of any salvage value)	Component Description:	KWQC-610-
not of any salvage value,		Disposal Costs
	Amount:	\$5,617.50
	Component Description:	KWQC-610-
	Compension Boomphoni	Disposal Costs
	Amount:	\$8,827.50
Non-zoning permits	Information not provided.	
E00 E''' E 0 : I		
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	Component Description	Droipet
	Component Description:	Project Management
	Amount:	\$2,860.00
	Information not provided.	
AM Pattern Disturbance Remedy		
FCC Filing Fees - Form 2100 minor change CP	Information not provided.	
Remedy  FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and	Information not provided.	
Remedy  FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and	Information not provided.  Component Description:	KWQC-610-
	,	KWQC-610- Equipment
Remedy  FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and	,	
Remedy  FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and	,	Equipment
FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and Handling Charges	Component Description:	Equipment Delivery
Remedy  FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and	Component Description: Amount:	Equipment Delivery \$11,935.00
FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and Handling Charges	Component Description:	Equipment Delivery \$11,935.00
FCC Filing Fees - Form 2100 minor change CP application  Equipment Delivery and Handling Charges	Component Description: Amount:	Equipment Delivery \$11,935.00

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,298,859.85	\$2,367,888.54	\$1,988,206.65

Reimbursem	entestiatus	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

11/15/2019

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

11/15/2019

#### **Attachments**