

(REFERENCE COPY - Not for submission)

#### FCC Form 399: Reimbursement Request

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

ID:

File 0000028734

Number:

FRN: 0018223693 Date 10/20

> Submitted: /2020

#### **Applicant** Information

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

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: 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
		ı

	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	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	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	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

#### Outside Professional

#### Other Professional Services Expenses Not Listed

al	Services Costs	Description	
	Attorney Fees -Construction Permit Aux Application	Attorney Fees - prepare and File Form 2100 Construction Permit	

## 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

#### Other Expenses Not Listed

Name	Description
Construction Permit Aux FCC Filing Fees	Construction Permit Aux FCC Filing Fees
License to Cover Aux FCC Filing Fees	License to Cover Aux FCC Filing Fees

## **Cost Information**

#### **Transmitters**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter EC706	\$253,934.00	\$215,138.81		\$210,895.76	
HVAC	\$7,484.00	\$7,484.00	Winter operation option added Including	\$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	\$9,950.00	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	\$1,351,907.19		\$1,317,182.58	
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	see Estimated Cost Justification KWQC-110- Electrical Service New 1st Primary Transmitter v1	\$87,050.00	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,264,857.19	Please see Estimated Cost Justification KWQC-110- New 1st Primary Transmitter v0	\$1,230,132.58	N/A
Sub-total	\$2,128,984.00	\$1,567,046.00	N/A	\$1,528,078.34	N/A
Total for all systems	\$3,309,649.35	\$2,427,520.49	N/A	\$2,282,445.77	N/A

#### Components

Actual Information Description	File Name	
HVAC		
	Component Description:	Daikin Ductless A /C System
	Amount:	\$5,995.00

Other Electrical Service: The new transmitter will **Component Description:** KWQC-180require reconfiguration of **Electrical Services** the electrical service on New Interim site. The electrical work Transmitter cost has been estimated Amount: \$2,313.80 based on verbal guidance from local electrical contractors. **Component Description:** KWQC-180-**Electrical Services** New Interim Transmitter **Amount:** \$7,636.20 UHF - Air Cooled Solid State Transmitter 4 - 6 kW **Component Description:** KWQC-180-New Interim Transmitter Amount: \$19,159.20 **Component Description:** KWQC-180-New Interim Transmitter **Amount:** \$72,002.16

Component Description: KWQC-180-New

Interim Transmitter

**Amount:** \$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

**Amount:** \$14,463.80

Component Description: Electrical work for

new transmitter

**Amount:** \$24,610.00

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW

**Component Description:** At 805 Brady

Street, Daveport,

IA install grounding

\$5,885.00 Amount:

**Component Description:** KWQC, SYSTEM

PRLX U32 D17

Amount: \$446,726.85

**Component Description:** System PRLX U32

D17

Amount: \$649,443.85

**Component Description:** Suppressor Amount:

\$560.00

**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 Interim Antenna TFU-WB8-R	Predetermined Cost Estimate \$70,004.40	Estimated Cost \$69,758.40	Estimated Cost Justification	Actual Cost \$59,882.06	Actual Cost Justification
Sweep test of existing antenna	\$6,730.00	\$6,484.00	Including tax	\$6,400.00	N/A
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
Primary Antenna TFU-27JSC /VP-R-04	\$227,517.50	\$224,806.15		\$208,481.65	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$19,435.28	see Estimated Cost Justification KWQC-210- Side Mount Brackets New Primary Antenna v0	\$19,435.28	N/A

complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$14,165.37	see Estimated Cost Justification KWQC-210- Elbow complex New Primary Antenna v0	\$14,165.37	N/A
Sweep test of existing antenna	\$6,730.00	\$6,848.00	Including tax	\$6,400.00	N/A
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	\$164,481.00	N/A
V-Pol	\$15,450.00	\$15,450.00	See attached DTVPros quote JEHQ1286- 07.	N/A	N/A
Pattern scatter analysis for	\$5,260.00	\$4,280.00	Per DTV Pros JEHQ1286- 07 Includes	\$4,000.00	N/A
side mount high/med power antennas (if not included in antenna base cost)			tax		

Total for all	\$3,309,649.35	\$2,427,520.49	N/A	\$2,282,445.77	N/A
systems					

#### Components

Actual Information Description	File Name	
Sweep test of existing antenna	Component Description:	KWQC-280-Sweep
	,	test for New Interim Antenna
	Amount:	\$1,280.00
	Component Description:	KWQC-280-Sweep
	· ·	test for New Interim Antenna
	Amount:	\$1,920.00
	Component Description:	KWQC Sweep Test New Interim
	Amount:	Antenna \$1,600.00
	Component Description:	KWQC Sweep
		Test for New Interim Antenna
	Amount:	\$1,600.00

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:** \$15,146.06

Component Description: UHF -

BROADBAND PANEL, SIDE MOUNT AUX /INTERIM TV ANT

TFU WB8-R \$14.376.00

**Amount:** \$14,376.00

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 W88-R

**Amount:** \$11,980.00

Side mount brackets for high power antennas (if not included in antenna base cost)

**Component Description:** KWQC-210-Side

> Mount Brackets **New Primary**

Antenna

Amount: \$4,380.00

**Component Description: KWQC Side Mount** 

**Brackets New** 

Primary Antenna

Amount: \$4,380.00

**Component Description:** KWQC-210-Side

> Mount Brackets **New Primary**

Antenna

Amount: \$5,256.00

**Component Description:** KWQC-210-Side

> Mount Brackets **New Primary** Antenna

Amount: \$5,419.28 Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)

Component Description: KWQC Elbow

Complex New Primary Antenna

**Amount:** \$3,192.00

Component Description: KWQC-210-Elbow

complex New Primary Antenna

**Amount:** \$3,950.97

Component Description: KWQC-210-Elbow

complex New Primary Antenna

**Amount:** \$3,192.00

Component Description: KWQC-210-Elbow

complex New Primary Antenna

**Amount:** \$3,830.40

Sweep test of existing antenna

Component Description: KWQC-210-Sweep

test New Primary

Antenna

**Amount:** \$1,600.00

Component Description: KWQC-210-Sweep

test New Primary

Antenna

**Amount:** \$1,280.00

Component Description: KWQC Sweep

**Test New Primary** 

Antenna

**Amount:** \$1,600.00

Component Description: KWQC-210-Sweep

test New Primary

Antenna

**Amount:** \$1,920.00

UHF - High Power, Side Mount, basic slot antenna, **Component Description: UHF High Power** 1000 kW input, directional,, Side Mount elliptically or circularly \$45,881.00 Amount: polarized **Component Description:** UHF - HIGH **POWER SIDE** MOUNT Amount: \$37,062.50 **Component Description:** UHF - HIGH **POWER SIDE** MOUNT Amount: \$44,475.00 **Component Description:** UHF - HIGH **POWER SIDE MOUNT** Amount: \$37,062.50 V-Pol Information not provided.

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)

Component Description: KWQC-210-

Pattern Scatter Analysis New Primary Antenna

**Amount:** \$1,000.00

Component Description: KWQC Pattern

Scatter Analysis 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:** \$800.00

### **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	\$64,900.00	\$59,947.19		\$59,922.13	
Flexible Air Transmission Line - dielectric, 3"	\$64,900.00	\$59,947.19	see Estimated Cost Justification KWQC-380- New Interim Transmission Line v2	\$59,922.13	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	\$59,947.19	N/A	\$59,922.13	N/A
Total for all systems	\$3,309,649.35	\$2,427,520.49	N/A	\$2,282,445.77	N/A

### Components

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 3"	

**Component Description:** KWQC-380-New

Interim

Transmission Line

**Amount:** \$15,257.66

Component Description: Provide labor,

tools and equipment to unload cable spool at Bettendorf

tower.

**Amount:** \$975.00

Component Description: Dehydrator

1000TLS 115V

**Amount:** \$5,104.69

**Component Description:** 3.0" grounding kit w

/60" lead, 2 hole

crimp on

**Amount:** \$1,530.05

Component Description: KWQC-380-New

Interim

Transmission Line

**Amount:** \$13,314.16

Component Description: KWQC New

Interim

Transmission Line

**Amount:** \$11,095.12

Component Description: AM GROUNDING

KITS ( QTY 11 GKFQRM60, QTY

13 RMA-GI)

**Amount:** \$1,550.33

	Component Description:	KWQC New Interim
	Amount:	Transmission Line \$11,095.12
Rigid Transmission Line - copper, 6 1/8"	Information not provided.	

### **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	\$223,100.00	\$202,704.30		\$191,673.05	
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	\$181,454.30	see Estimated Cost Justification KWQC-410- Rigging existing tower v0	\$177,423.05	N/A
Sub-total	\$223,100.00	\$202,704.30	N/A	\$191,673.05	N/A
Total for all systems	\$3,309,649.35	\$2,427,520.49	N/A	\$2,282,445.77	N/A

### Components

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

Structural engineering tower load study for well		
documented tower	Component Description:	Engineering
		Evaluation
	Amount:	\$7,125.00
	Component Description:	Engineering
		Evaluation
	Amount:	\$7,125.00
Tall Tower (greater than		
500')	Component Description:	Tower rigging services
	Amount:	\$137,940.10
	Component Description:	Tower Equipment
		and Rigging
	Amount:	\$39,482.95

### **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	\$202,504.50	\$187,494.50		\$150,363.40	
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$4,500.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$370.00	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$1,258.00	see Estimated Cost Justification KWQC-550- Attorney Fees - Other Matters v0	\$1,258.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$166.00	N/A

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$124.50	Please see Gray KWQC License to Cover (Aux), License to Cover (Aux) FCC Filing Fees Budget Justification Letter	\$124.50	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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,550.00	see Estimated Cost Justification KWQC-530- RF Eng STA v0	\$1,550.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$1,050.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$675.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$9,187.50	Per Estimated Cost Justification KWQC-530- RF Eng new channel study v2	\$9,187.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$225.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$130,608.90	N/A
Attorney Fees - Construction Permit Aux Application	\$124.50	\$124.50	Please see Gray KWQC Construction Permit (Aux) Application and Construction Permit (Aux) FCC Filing Fees Budget Justification Letter	\$124.50	N/A
Sub-total	\$202,504.50	\$187,494.50	N/A	\$150,363.40	N/A
Total for all systems	\$3,309,649.35	\$2,427,520.49	N/A	\$2,282,445.77	N/A

### Components

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

RF Exposure		
Measurements	Component Description:	RFR survey of
		Bettendorf Tower
		Site all inclusive
	Amount:	\$4,500.00
Attorney Fees - Prepare		
and File request for Special	Component Description:	KWQC-550-
Temporary Authorization	Component Description.	Attorney Fees STA
	Amount:	\$370.00
Attorney Fees - Negotiation		
of lease and other matters	Component Description:	For Professional
for shared locations		Services Rendered
	Amount:	\$1,036.00
	Component Description:	Total Professional
		Services
	Amount:	\$222.00
Attorney Fees -Prepare		
and File FCC Form 2100	Component Description:	KWQC-550-
(main), License to Cover		Attorney Fees
Application		2100 license to
		cover
	Amount:	\$166.00
Attorney Fees - Aux Antenna, prepare and File		
, antonna, propare and rine	Component Description:	For Professional
Form 2100 Construction		Services Rendered
Form 2100 Construction Permit or License		\$124.50

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description:	File 2100 CP application \$196.50
	7 mileanii	<b>\$100.00</b>
	Component Description:	Research loss area consideration for
	Amount:	CP application \$327.50
Prepare request for Special		
Temporary Authorization	Component Description:	Interim operation on pre-auction Ch-
		36
	Amount:	\$1,025.00
	Component Description:	KWQC-530-RF
		Eng STA
	Amount:	\$525.00
Prepare engineering		
section of FCC Form 2100 (main), License to Cover	Component Description:	KWQC-530-RF
Application		Eng 2100 license to cover
	Amount:	\$800.00
		141100 25
	Component Description:	KWQC-530-RF Eng 2100 license
		to cover
	Amount:	\$250.00
Prepare engineering		
section of FCC Form 2100 (main), Construction Permit	Component Description:	Consulting
Application	Amount	Engineer
	Amount:	\$675.00
Perform engineering study		
for new channel assignment and antenna		
development		

Component Description: REview

prospective

reconfiguration and reposition of FM station antenna

**Amount:** \$437.50

Component Description: RF Consulting fee

**Amount:** \$562.50

Component Description: Consulting

Engineer

**Amount:** \$1,550.00

**Component Description:** KWQC-530-RF

Eng new channel study- \$650.00

**Amount:** \$650.00

Component Description: Repack Ch-17

remarks regarding antenna proposals

**Amount:** \$200.00

Component Description: Perform

engineering study for new channel assignment

**Amount:** \$1,850.00

Component Description: Antenna

configuration and develop final ERP and parameters for initial CP

application

**Amount:** \$3,512.50

**Component Description:** KWQC-530-RF Eng new channel study \$225.00 Amount: **Component Description:** KWQC-530-RF Eng new channel study \$200.00 Amount: Address transition timing and coordination issues w/ **Component Description:** Various other stations and wireless discussions regarding KWQC-TV's transition and upstream dependency with WAND/Decatur **Amount:** \$225.00 Information not provided. Prepare and or review reimbursement form Project management of the transition **Component Description: Project** Management Amount: \$5,769.55 **Component Description: Project** Management Amount: \$5,189.50 **Component Description: Project** Management Amount: \$5,208.75 Project **Component Description:** 

**Amount:** 

management

\$1,366.05

Component Description: Project

Management

Amount:

\$2,315.65

**Component Description:** 

Project Management

Amount:

\$5,613.70

**Component Description:** 

**Project** 

Amount:

management \$4,037.85

Project

**Component Description:** 

Management

**Amount:** 

Amount:

\$2,581.30

**Component Description:** 

Project

management \$2,667.65

**Component Description:** 

Project Management

\$28.20

**Component Description:** 

Project

Amount:

**Amount:** 

Management

\$2,244.80

**Component Description:** 

Management

Amount:

\$5,577.40

Project

**Component Description:** 

Project

Amount:

Management

\$5,800.90

**Component Description:** P

Project Management

Amount:

\$1,642.75

**Component Description:** 

Project Management

Amount:

\$3,111.30

**Component Description:** 

**Project** 

Amount:

Management \$4,943.25

Component Description: Project

Management

Amount:

\$3,655.90

**Component Description:** 

Project

Management

Amount:

\$4,499.20

**Component Description:** 

Project

Management

Amount:

\$802.25

**Component Description:** 

Project

Management

Amount:

\$1,551.45

**Component Description:** 

Consulting Engineer

Amount:

\$525.00

**Component Description:** 

Project

Amount:

Management

\$1,928.85

**Component Description:** KWQC-510-Project

Management

\$1,200.00 Amount:

**Component Description: Project** 

Management

Amount: \$2,195.70

**Component Description: Project** 

Management

Amount: \$3,377.30

**Component Description:** Project

Management

\$5,389.60 **Amount:** 

**Component Description:** Project

Management

Amount: \$4,818.50

**Component Description: Project** 

Management

**Amount:** \$4,216.40

**Component Description:** Project

Management

Amount: \$2,258.25

**Component Description:** Project

Management

Amount: \$3,377.30

**Component Description:** 

Project

management **Amount:** 

\$2,876.90

Component Description:

Project Management

Amount:

\$2,066.10

**Component Description:** 

Project

Amount:

Management \$1,816.25

**Component Description:** 

**Project** 

Amount:

Management \$1,543.30

Project

**Component Description:** 

Management

Amount:

\$4,115.55

**Component Description:** 

Project

Amount:

Management \$2,009.35

**Component Description:** 

**Project** 

Amount:

Management \$1,831.85

**Component Description:** 

Project Management

Amount:

\$3,558.45

**Component Description:** 

Project Management

Amount:

\$1,518.10

**Component Description:** 

Project

Amount:

Management

\$2,033.70

**Component Description:** Transition Related Project **Management Costs** \$3,000.00 Amount: **Component Description:** Project Management Amount: \$2,364.40 **Component Description:** Project Management \$3,980.65 **Amount:** 

Attorney Fees -Construction Permit Aux Application

Component Description: For Professional

Services Rendered

**Amount:** \$124.50

## **Cost Information**

### **Other Expenses**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$128,018.95	\$115,763.95		\$84,045.14	
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	see Estimated Cost Justification KWQC-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
Disposal Costs (for equipment and other waste, net of any salvage value)	\$16,050.00	\$16,050.00	N/A	\$15,062.19	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$600.00	see Estimated Cost Justification KWQC-610- STA FCC Filing Fees v1	\$600.00	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	see Estimated Cost Justification KWQC-610- License to Cover FCC Filing Fees v0	\$335.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,860.00	N/A	\$2,860.00	N/A
AM Pattern Disturbance Remedy	\$21,050.00	\$17,120.00	N/A	N/A	N/A
License to Cover Aux FCC Filing Fees	\$335.00	\$335.00	Please see Gray KWQC License to Cover (Aux), License to Cover (Aux) FCC Filing Fees Budget Justification Letter	\$335.00	N/A
Construction Permit Aux FCC Filing Fees	\$1,110.00	\$1,110.00	Please see Gray KWQC Construction Permit (Aux) Application and Construction Permit (Aux) FCC Filing Fees Budget Justification Letter	\$1,110.00	N/A

Equipment Delivery and Handling Charges  Reimbursable Sales Taxes  \$49,807.95						
Delivery and Handling Charges	=	\$7,541.00	\$7,541.00	N/A	\$0.00	N/A
Sales Taxes  Notice: Estimate adjusted and locked because line has been superseded. ****  Sub-total \$128,018.95 \$115,763.95 N/A \$84,045.14 N/A  Total for all \$3,309,649.35 \$2,427,520.49 N/A \$2,282,445.77 N/A	Delivery and Handling	\$11,935.00	\$11,935.00	Notice: Estimate adjusted and locked because line has been superseded.	\$11,935.00	N/A
<b>Total for all</b> \$3,309,649.35 \$2,427,520.49 N/A \$2,282,445.77 N/A		\$49,807.95	\$49,807.95	Notice: Estimate adjusted and locked because line has been superseded.	\$49,807.95	N/A
	Sub-total	\$128,018.95	\$115,763.95	N/A	\$84,045.14	N/A
		\$3,309,649.35	\$2,427,520.49	N/A	\$2,282,445.77	N/A

### Components

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description: Amount:	Flat Fee \$2000. \$2,000.00
Develop and air announcement of upcoming channel change	Information not provided.	

Disposal Costs (for		
equipment and other waste,	Component Description:	KWQC-610-
net of any salvage value)		Disposal Costs
	Amount:	\$5,617.50
	Component Description:	1 Waste Container
	Component Description.	20 Cu Yd
	Amount:	\$617.19
		141100000
	Component Description:	KWQC-610-
	Amount:	Disposal Costs \$8,827.50
	Allount.	ψυ,σ∠1.50
	Component Description:	Invoice being
		resubmitted to
		correct invoice
	A	errors
	Amount:	N/A
FCC Filing Fees - Special Temporary Authorization		
request	Component Description:	KWQC-610-STA
·	Amount	FCC Filing Fees
	Amount:	\$200.00
	Component Description:	Professional
		Services
	Amount:	\$200.00
	Component Description:	Total Professional
		Services
	Amount:	\$200.00
500 5''' 5 -		
FCC Filing Fees - Form 2100 license to cover	Component Description:	KWQC-610-
application		License to Cover
		FCC Filing Fees
	Amount:	\$335.00

FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	Project Management \$2,860.00
AM Pattern Disturbance Remedy	Information not provided.	
License to Cover Aux FCC Filing Fees	Component Description:	KWQC-610- License to Cover Aux FCC Filing
	Amount:	Fees \$335.00
Construction Permit Aux FCC Filing Fees	Component Description:	KWQC-610- Construction Permit (Aux) FCC Filing Fees
	Amount:	\$1,110.00
Non-zoning permits	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:	KWQC-610- Equipment
	Amount:	Delivery \$11,935.00
Reimbursable Sales Taxes	Component Description:	KWQC-610-
	Component Description.	Reimbursable Taxes

# Cost Information

### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,309,649.35	\$2,427,520.49	\$2,282,445.77

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

10/20/2020

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

10/20/2020

#### **Attachments**