



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **34204** | Service: **DTV** | Call **WCVN-TV** | Channel: **22 (UHF)** |  
ID:  
File **0000026897** | Sign:  
Number:  
FRN: **0001790583** | Date **09/05**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>KENTUCKY AUTHORITY FOR EDUCATIONAL TV</b>	Shae Hopkins 600	+1 (859)	SHOPKINS@KET. ORG	Government Entity
Doing Business As: KENTUCKY AUTHORITY FOR EDUCATIONAL TV	COOPER DR LEXINGTON, KY 40502 United States	258- 7000		

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Greg Best</b> <i>Consulting Engineer</i> <i>Greg Best Consulting,</i> <i>Inc.</i>	Greg Best 16100 Outlook Avenue Stilwell, KS 66085 United States	+1 (816) 792- 2913	gbconsulting54@gmail. com

**Broadcaster  
Information  
and  
Transition  
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Please see attached repack plan exhibit.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DHD20P1
	Year	2001
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	5 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	Maxiva UAXTE-8
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	5 kW
	Justification for New Transmitter	Pre-auction transmitter no longer supported by supplier; not re-tunable.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	50.0 feet
	Other Electrical Service	No

	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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**

Information not provided.

**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?	No
	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 Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	53.5 kW

Manufacturer	
Model	TLP-16B (24)
Year	2001



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?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	39.9 kW
	Manufacturer	

Model	ATW17H3-ETO-22H
Year	2017
Justification for New Antenna	Primary antenna is not broadband or able to be tuned to a new channel. New top mount reduces overall repack cost. Please see Repack Plan Exhibit for details.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel

	Feed Line Size	3 1/8 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Primary Antenna

### Other Antenna Cost Not Listed

Information not provided.

**Transmission Line**

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

**Primary  
Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	300 feet per run

**Primary**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	370 feet per run
	Justification for New Transmission Line	Installation of new broadband line makes possible the operation of the current facility while the tower is rigged and the construction of the new facility is underway. Licensee has chosen to upgrade to 3" rigid T-Line.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
Information 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	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1044039
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	39° 01' 51.0" N-
	Longitude (NAD83)	084° 30' 23.0" W-
	Overall Structure Height	312.33 feet
	Support Structure Height	297.57 feet
	Ground Elevation Above Mean Sea Level (AMSL)	828.40 feet
	Structure Type	TOWER - Free Standing or Guyed Structure



	Tower Owner	KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = WCVN TV
	Date Constructed	01/01/1968

### Primary Tower

#### Tower Modification Costs

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

### Primary Tower

#### Tower Rigging Costs

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

### Primary Tower

#### Other Tower Expenses Not Listed

Name	Description
Load Study	Structural engineering tower load study is required to design tower reinforcements and rigging.
Crane Services	Crane was required to displace fiber cable that prevented antenna installation.



**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	80
	Explanation	KET Staff require outside services to manage the upgrades.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes

	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	No
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
<b>Progress and Transition Reports</b>	Engineering consultant costs not otherwise listed.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	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?	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
Internal Labor	FCC Reimbursement Clerk hired for repack reimbursement ONLY

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
Primary Transmitter Maxiva UAXTE-8	\$291,700.00	\$277,450.00		\$129,570.13	
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	\$236,500.00	\$225,000.00	N/A	\$127,953.63	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	\$1,616.50	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,450.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Sub-total	\$291,700.00	\$277,450.00	N/A	\$129,570.13	N/A
Total for all systems	\$1,040,100.00	\$1,256,412.29	N/A	\$703,786.19	N/A

Components

Actual Information Description	File Name
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UHF - Air Cooled Solid State  
Transmitter 4 - 6 kW

**Component Description:**

transmitter, rf  
system, electrical  
system,  
installation &  
proof, freight

**Amount:**

\$127,153.25

**Component Description:**

Antenna & line  
spec

**Amount:**

\$437.50

**Component Description:**

eComm admin  
and support,  
distribution  
services at time of  
bidding -  
GatesAir, RFP-48-  
19

**Amount:**

\$362.88



Service entrance 3 phase /800 amp/208 volt	<b>Component Description:</b>  <b>Amount:</b>	KET transmitter building electrical upgrade \$60.00
	<b>Component Description:</b>  <b>Amount:</b>	KET transmitter building electrical upgrade \$205.00
	<b>Component Description:</b>  <b>Amount:</b>	KET transmitter building electrical upgrades \$120.00
	<b>Component Description:</b>  <b>Amount:</b>	KET Transmitter building electrical upgrade \$730.00
	<b>Component Description:</b>  <b>Amount:</b>	KET Transmitter Building Electrical Upgrade \$6.00
	<b>Component Description:</b>  <b>Amount:</b>	KET transmitter building electrical upgrade \$445.50
	<b>Component Description:</b>  <b>Amount:</b>	KET Transmitter building electrical upgrade \$50.00
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Switchgear - industrial 800 amp	Information not provided.
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## 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
<b>Primary Antenna ATW17H3-ETO-22H</b>	<b>\$303,830.00</b>	<b>\$254,900.00</b>		<b>\$125,035.25</b>	
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$7,400.00	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$235,000.00	Cost estimate adjusted for reimbursement of horizontal-polarized antenna like the pre-repack primary antenna.	\$114,410.25	N/A

Sweep test of existing antenna	\$6,730.00	\$12,500.00	the third sweep was to confirm the performance of the existing transmission line, before it was disconnected from the current DTV antenna. This was included at every site where the existing DTV transmission line was reused to feed the new main antenna	\$10,625.00	N/A
<b>Sub-total</b>	\$303,830.00	\$254,900.00	N/A	\$125,035.25	N/A
<b>Total for all systems</b>	\$1,040,100.00	\$1,256,412.29	N/A	\$703,786.19	N/A

## Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<div> <b>Component Description:</b> antenna (less vpol) and replacement lighting (50%)         </div> <div> <b>Amount:</b> \$67,120.00         </div>
	<div> <b>Component Description:</b> antenna (less vpol) and replacement lighting (35%)         </div> <div> <b>Amount:</b> \$46,984.00         </div>
	<div> <b>Component Description:</b> Antenna gain and TPO Evaluation and revision of specifications         </div> <div> <b>Amount:</b> \$306.25         </div>
Sweep test of existing antenna	<div> <b>Component Description:</b> system sweep (35%)         </div> <div> <b>Amount:</b> \$4,375.00         </div>
	<div> <b>Component Description:</b> system sweep (50%)         </div> <div> <b>Amount:</b> \$6,250.00         </div>

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$44,400.00	\$78,832.29		\$33,762.14	
Rigid Transmission Line - copper, 3 1 /8" broadband	\$44,400.00	\$78,832.29	See quotation from ERI based upon required work and supplemental information regarding transmission line upgrade costs. Cost includes T- Line and dryer. Licensee confirms it is responsible for upgrade cost.	\$33,762.14	N/A
Sub-total	\$44,400.00	\$78,832.29	N/A	\$33,762.14	N/A
Total for all systems	\$1,040,100.00	\$1,256,412.29	N/A	\$703,786.19	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line - copper, 3 1/8" broadband		
	<b>Component Description:</b>	transmission line (less additional cost of rigid) and air dryer (35%)
	<b>Amount:</b>	\$13,902.07
	<b>Component Description:</b>	transmission line (less additional cost for rigid) and air dryer (50%)
	<b>Amount:</b>	\$19,860.07

## 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
<b>Primary Tower TOWER</b>	<b>\$308,980.00</b>	<b>\$563,980.00</b>		<b>\$402,237.35</b>	
Short Tower (less than 500')	\$84,200.00	\$345,000.00	KET obtained quotation of realistic scope of tower rigging work from reputable supplier. Please see attached Tower Work exhibit.	\$201,147.97	N/A
Crane Services	<i>\$28,480.00</i>	\$28,480.00	Crane was required to displace backhaul fiber line in order to allow antenna installation to occur.	\$28,480.00	N/A
Load Study	<i>\$12,000.00</i>	\$12,000.00	Structural engineering tower load study is required to design tower reinforcements and rigging.	\$9,550.00	N/A



Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$17,400.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$153,500.00	N/A	\$145,659.38	N/A
<b>Sub-total</b>	\$308,980.00	\$563,980.00	N/A	\$402,237.35	N/A
<b>Total for all systems</b>	\$1,040,100.00	\$1,256,412.29	N/A	\$703,786.19	N/A

## Components

Actual Information	
Description	File Name

Short Tower (less than 500')	<div> <div>Component Description:</div> <div>installation services (35%)</div> </div> <div> <div>Amount:</div> <div>\$82,191.45</div> </div>
	<div> <div>Component Description:</div> <div>installation services (50%)</div> </div> <div> <div>Amount:</div> <div>\$117,416.35</div> </div>
	<div> <div>Component Description:</div> <div>3rd submission: eComm administration and support, distribution services at time of bidding -- Electronics Research, Inc. contract - RFP-96-19</div> </div> <div> <div>Amount:</div> <div>\$1,540.17</div> </div>
Crane Services	<div> <div>Component Description:</div> <div>crane services to swap top antenna (remaining 50%)</div> </div> <div> <div>Amount:</div> <div>\$14,240.00</div> </div>
	<div> <div>Component Description:</div> <div>crane services to swap top antenna (50%)</div> </div> <div> <div>Amount:</div> <div>\$14,240.00</div> </div>

Load Study		
	<b>Component Description:</b>	Second Installment Geotechnical Studies
	<b>Amount:</b>	\$4,690.00
	<b>Component Description:</b>	Second Installment Tower Structural Analysis
	<b>Amount:</b>	\$450.00
	<b>Component Description:</b>	First Installment Tower Structural Analysis
	<b>Amount:</b>	\$2,550.00
	<b>Component Description:</b>	First Installment Geotechnical Studies
	<b>Amount:</b>	\$2,310.00

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<b>Component Description:</b>		mapping complete
	<b>Amount:</b>		\$7,500.00
	<b>Component Description:</b>		Second Installment
	<b>Amount:</b>		Tower Mapping \$2,077.00
	<b>Component Description:</b>		First Installment
	<b>Amount:</b>		Tower Mapping \$1,023.00
	<b>Component Description:</b>		First Installment
	<b>Amount:</b>		Foundation Mapping \$3,500.00
	<b>Component Description:</b>		First Installment
	<b>Amount:</b>		Tower Inspections \$1,189.00
	<b>Component Description:</b>		Second Installment
	<b>Amount:</b>		Tower Inspections \$2,111.00

Minor tower reinforcement /modifications	<b>Component Description:</b>	Second Installment Tower Modification
	<b>Amount:</b>	\$2,475.00
	<b>Component Description:</b>	eComm administration and support, distribution services at time of bidding -- Allstate Tower contract
	<b>Amount:</b>	\$637.50
	<b>Component Description:</b>	eComm administration and support, distribution services at time of bidding -- Allstate Tower contract RFB-198-18
	<b>Amount:</b>	\$46.88
	<b>Component Description:</b>	First Installment Tower Modification
	<b>Amount:</b>	\$4,500.00
	<b>Component Description:</b>	tower mod
	<b>Amount:</b>	\$142,500.00

## 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
<b>Outside Professional Services</b>	<b>\$43,200.00</b>	<b>\$41,250.00</b>		<b>\$11,217.33</b>	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$1,881.50	N/A
Progress and Transition Reports	<i>\$4,000.00</i>	\$4,000.00	Engineering consultant costs not otherwise listed.	\$787.50	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$493.93	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$481.25	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,235.00	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 engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,712.50	N/A
Project management of the transition	\$12,640.00	\$12,000.00	KET Staff require outside services to manage the upgrades.	\$1,416.28	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$1,487.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$721.87	N/A
<b>Sub-total</b>	<b>\$43,200.00</b>	<b>\$41,250.00</b>	<b>N/A</b>	<b>\$11,217.33</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$1,040,100.00</b>	<b>\$1,256,412.29</b>	<b>N/A</b>	<b>\$703,786.19</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover	

<b>Component Description:</b>	First Installment Attorney Fees 2100
<b>Amount:</b>	\$49.50
<b>Component Description:</b>	reminder and research re: quarterly repack report and progress reports
<b>Amount:</b>	\$134.00
<b>Component Description:</b>	prepare chart re: WCVN's repack dependencies and linked station set
<b>Amount:</b>	\$105.00
<b>Component Description:</b>	work on review and analysis of RFP for repack reimbursement assistance
<b>Amount:</b>	\$198.00
<b>Component Description:</b>	work on transition timing and other issues for repack
<b>Amount:</b>	\$148.50
<b>Component Description:</b>	email re: FCC shutdown, repack filings, other repack related work during shutdown; work on MVPD notifications and obligations
<b>Amount:</b>	\$544.50



	<b>Component Description:</b>	repack issues re: reimbursement process; engaging a project manager; email re: same
	<b>Amount:</b>	\$198.00
	<b>Component Description:</b>	Environmental review
	<b>Amount:</b>	\$49.50
	<b>Component Description:</b>	Second Installment Attorney Fees 2100
	<b>Amount:</b>	\$320.50
	<b>Component Description:</b>	public notice; repack & coordination of linked station for testing and sequence of transitioning stations
	<b>Amount:</b>	\$134.00
Progress and Transition Reports	<b>Component Description:</b>	quarterly progress report
	<b>Amount:</b>	\$437.50
	<b>Component Description:</b>	quarterly progress report
	<b>Amount:</b>	\$350.00

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	<table> <tr> <td data-bbox="707 174 1015 210"><b>Component Description:</b></td><td data-bbox="1147 174 1382 327">notice of proposed tower height increase in newspaper &amp; online</td></tr> <tr> <td data-bbox="707 338 815 374"><b>Amount:</b></td><td data-bbox="1147 338 1246 374">\$143.93</td></tr> <tr> <td data-bbox="707 477 1015 512"><b>Component Description:</b></td><td data-bbox="1147 477 1286 512">FAA Inquiry</td></tr> <tr> <td data-bbox="707 517 815 553"><b>Amount:</b></td><td data-bbox="1147 517 1246 553">\$350.00</td></tr> </table>	<b>Component Description:</b>	notice of proposed tower height increase in newspaper & online	<b>Amount:</b>	\$143.93	<b>Component Description:</b>	FAA Inquiry	<b>Amount:</b>	\$350.00								
<b>Component Description:</b>	notice of proposed tower height increase in newspaper & online																
<b>Amount:</b>	\$143.93																
<b>Component Description:</b>	FAA Inquiry																
<b>Amount:</b>	\$350.00																
ASR modification (prepare FCC Form 854)	<table> <tr> <td data-bbox="707 687 1015 723"><b>Component Description:</b></td><td data-bbox="1147 687 1315 763">ASR mod app followup</td></tr> <tr> <td data-bbox="707 770 815 806"><b>Amount:</b></td><td data-bbox="1147 770 1246 806">\$131.25</td></tr> <tr> <td data-bbox="707 909 1015 945"><b>Component Description:</b></td><td data-bbox="1147 909 1276 983">ASR Issue Resolution</td></tr> <tr> <td data-bbox="707 987 815 1023"><b>Amount:</b></td><td data-bbox="1147 987 1246 1023">\$350.00</td></tr> </table>	<b>Component Description:</b>	ASR mod app followup	<b>Amount:</b>	\$131.25	<b>Component Description:</b>	ASR Issue Resolution	<b>Amount:</b>	\$350.00								
<b>Component Description:</b>	ASR mod app followup																
<b>Amount:</b>	\$131.25																
<b>Component Description:</b>	ASR Issue Resolution																
<b>Amount:</b>	\$350.00																
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<table> <tr> <td data-bbox="707 1158 1015 1193"><b>Component Description:</b></td><td data-bbox="1147 1158 1362 1234">Fourth Installment Attorney Fees</td></tr> <tr> <td data-bbox="707 1240 815 1276"><b>Amount:</b></td><td data-bbox="1147 1240 1246 1276">\$198.00</td></tr> <tr> <td data-bbox="707 1379 1015 1415"><b>Component Description:</b></td><td data-bbox="1147 1379 1339 1456">First Installment Attorney Fees</td></tr> <tr> <td data-bbox="707 1462 815 1498"><b>Amount:</b></td><td data-bbox="1147 1462 1230 1498">\$99.00</td></tr> <tr> <td data-bbox="707 1601 1015 1637"><b>Component Description:</b></td><td data-bbox="1147 1601 1347 1677">Third Installment Attorney Fees</td></tr> <tr> <td data-bbox="707 1684 815 1720"><b>Amount:</b></td><td data-bbox="1147 1684 1230 1720">\$99.00</td></tr> <tr> <td data-bbox="707 1823 1015 1859"><b>Component Description:</b></td><td data-bbox="1147 1823 1374 1899">Second Installment Attorney Fees</td></tr> <tr> <td data-bbox="707 1906 815 1942"><b>Amount:</b></td><td data-bbox="1147 1906 1246 1942">\$839.00</td></tr> </table>	<b>Component Description:</b>	Fourth Installment Attorney Fees	<b>Amount:</b>	\$198.00	<b>Component Description:</b>	First Installment Attorney Fees	<b>Amount:</b>	\$99.00	<b>Component Description:</b>	Third Installment Attorney Fees	<b>Amount:</b>	\$99.00	<b>Component Description:</b>	Second Installment Attorney Fees	<b>Amount:</b>	\$839.00
<b>Component Description:</b>	Fourth Installment Attorney Fees																
<b>Amount:</b>	\$198.00																
<b>Component Description:</b>	First Installment Attorney Fees																
<b>Amount:</b>	\$99.00																
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<b>Amount:</b>	\$99.00																
<b>Component Description:</b>	Second Installment Attorney Fees																
<b>Amount:</b>	\$839.00																

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b>  <b>Amount:</b>	Antenna and transmission line bid spec review and bid response review \$700.00
	<b>Component Description:</b>  <b>Amount:</b>	Hitachi and GatesAir response review, new antenna and line specs \$525.00
	<b>Component Description:</b> <b>Amount:</b>	First Installment CP Prepare \$1,400.00
	<b>Component Description:</b> <b>Amount:</b>	new antenna and line specs \$87.50

Project management of the transition

**Component Description:** travel expenses  
**Amount:** \$294.50

**Component Description:** project management  
**Amount:** \$175.00

**Component Description:** travel expenses  
**Amount:** \$10.78

**Component Description:** project management tasks  
**Amount:** \$87.50

**Component Description:** Travel expenses - INVOICE NUMBER noted on travel voucher  
**Amount:** \$561.00

**Component Description:** Travel expenses - invoice number highlighted and labeled  
**Amount:** \$156.25

**Component Description:** project management  
**Amount:** \$87.50

**Component Description:** project management  
**Amount:** \$43.75

Prepare and or review reimbursement form	<table> <tr> <td data-bbox="692 87 1091 376"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 87 1426 376">           First Installment            399 Form            \$1,400.00         </td></tr> <tr> <td data-bbox="692 376 1091 566"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 376 1426 566">           Second Installment            399 Form            \$87.50         </td></tr> </table>	<b>Component Description:</b>  <b>Amount:</b>	First Installment 399 Form \$1,400.00	<b>Component Description:</b>  <b>Amount:</b>	Second Installment 399 Form \$87.50						
<b>Component Description:</b>  <b>Amount:</b>	First Installment 399 Form \$1,400.00										
<b>Component Description:</b>  <b>Amount:</b>	Second Installment 399 Form \$87.50										
Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="692 566 1091 846"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 566 1426 846">           Linked station neighbor analysis            \$262.50         </td></tr> <tr> <td data-bbox="692 846 1091 1070"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 846 1426 1070">           Non-Reimbursable,            \$0.00 requested            N/A         </td></tr> <tr> <td data-bbox="692 1070 1091 1294"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 1070 1426 1294">           Third Installment            Engineering Study            \$2,100.00         </td></tr> <tr> <td data-bbox="692 1294 1091 1563"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 1294 1426 1563">           Review of site documentation and antennas, facility planning            \$459.37         </td></tr> <tr> <td data-bbox="692 1563 1091 1769"> <b>Component Description:</b>   <b>Amount:</b> </td><td data-bbox="1091 1563 1426 1769">           First Installment            Engineering Study            \$459.37         </td></tr> </table>	<b>Component Description:</b>  <b>Amount:</b>	Linked station neighbor analysis \$262.50	<b>Component Description:</b>  <b>Amount:</b>	Non-Reimbursable, \$0.00 requested N/A	<b>Component Description:</b>  <b>Amount:</b>	Third Installment Engineering Study \$2,100.00	<b>Component Description:</b>  <b>Amount:</b>	Review of site documentation and antennas, facility planning \$459.37	<b>Component Description:</b>  <b>Amount:</b>	First Installment Engineering Study \$459.37
<b>Component Description:</b>  <b>Amount:</b>	Linked station neighbor analysis \$262.50										
<b>Component Description:</b>  <b>Amount:</b>	Non-Reimbursable, \$0.00 requested N/A										
<b>Component Description:</b>  <b>Amount:</b>	Third Installment Engineering Study \$2,100.00										
<b>Component Description:</b>  <b>Amount:</b>	Review of site documentation and antennas, facility planning \$459.37										
<b>Component Description:</b>  <b>Amount:</b>	First Installment Engineering Study \$459.37										

## 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
<b>Other Expenses</b>	<b>\$47,990.00</b>	<b>\$40,000.00</b>		<b>\$1,963.99</b>	
Internal Labor	<i>\$2,000.00</i>	\$2,000.00	N/A	\$376.49	N/A
AM Pattern Disturbance -- Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A
AM Pattern Disturbance -- Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,000.00	GBC estimate based on known quotations	\$1,587.50	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$2,000.00</i>	\$2,000.00	KET estimate based on known costs.	N/A	N/A
Equipment Storage	<i>\$500.00</i>	\$500.00	GBC estimate	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,500.00</i>	\$1,500.00	KET estimate for developing and airing announcement.	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,500.00</i>	\$1,500.00	KET estimate to search for and notify all cable companies.	N/A	N/A
<b>Sub-total</b>	<b>\$47,990.00</b>	<b>\$40,000.00</b>	N/A	<b>\$1,963.99</b>	N/A

<b>Total for all systems</b>	\$1,040,100.00	\$1,256,412.29	N/A	\$703,786.19	N/A
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## Components

Actual Information	
Description	File Name
Internal Labor	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$37.85
	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$37.55
	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$66.91
	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$34.51
	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$58.43
	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$71.75
	<b>Component Description:</b> payroll expenses for internal labor <b>Amount:</b> \$69.49
AM Pattern Disturbance -- Impact study	Information not provided.

AM Pattern Disturbance -- Remedy	Information not provided.
DTV Medical Facility Notification	<b>Component Description:</b> medical notification <b>Amount:</b> \$1,587.50
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.



<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$1,040,100.00	\$1,256,412.29
			\$703,786.19

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	The facility has ceased operating on its pre-auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Shae Hopkins</b>  <i>Executive Director</i></p> <p>09/05/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Shae Hopkins</b>  <i>Executive Director</i></p> <p>09/05/2019</p>

## Attachments