



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **34202** | Service: **DTV** | Call **WKMR** | Channel: **30 (UHF)**
ID: | Sign:
File **000026892**
Number:
FRN: **0001790583** | Date **09/26**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

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

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
Greg Best <i>Consulting Engineer</i> <i>Greg Best Consulting, Inc.</i>	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
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 and Type	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
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary
Transmitter**

Other Transmitter Cost Not Listed

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)	51.4 kW

Manufacturer	
Model	TLP-16B (15)
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)	60.5 kW
Manufacturer		

Model	ATW22H3-ETO-30H
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
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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
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?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
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
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	613 feet per run

**Primary
Transmission
Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	50 feet per run
	Justification for New Transmission Line	Short run of new line to cover distance from current side-mount elevation to new top-mount location.

**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?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	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	1044041
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 10' 38.0" N-
	Longitude (NAD83)	083° 24' 17.0" W-
	Overall Structure Height	606.95 feet
	Support Structure Height	560.36 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1389.09 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

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

**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
43765	WMKY	FM

**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.

Outside Professional Services Costs

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

	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	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
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 Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Progress and Transition Reports	progress and transition reports

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	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	\$286,379.00		\$150,145.13	
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	\$236,500.00	\$225,000.00	N/A	\$127,516.13	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,450.00	N/A	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$22,629.00	Actual costs exceeded estimated costs. Estimates were obtained AFTER 399 was created. Applicable quote attached to invoice 3739	\$22,629.00	Actual costs exceeded estimated costs. Estimates were obtained AFTER 399 was created. Applicable quote attached to invoice 3739
Sub-total	\$291,700.00	\$286,379.00	N/A	\$150,145.13	N/A

Total for all systems	\$1,371,381.00	\$1,333,653.78	N/A	\$893,566.67	N/A
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Components

Actual Information	
Description	File Name
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	Component Description: Transmitter, RF System, Electrical System, Freight Amount: \$112,290.01
	Component Description: eComm admin and support, distribution services at time of bidding -- GatesAir (RFP-48-19) Amount: \$362.88
	Component Description: installation and proof - transmitter Amount: \$14,863.24
Switchgear - industrial 800 amp	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Service entrance 3 phase /800 amp/208 volt	Component Description: KET Transmitter building electrical upgrade Amount: \$17,194.00

Component Description: KET transmitter
building electrical
upgrade
Amount: \$1,100.00

Component Description: KET transmitter
building electrical
upgrade
Amount: \$330.00

Component Description: KET Transmitter
building electrical
upgrade
Amount: \$1,225.00

Component Description: eComm admin
and support,
distribution
services at time of
bidding -- KLH
(RFB-183-19)
Amount: \$375.00

Component Description: KET Transmitter
building electrical
upgrade
Amount: \$260.00

Component Description: KET Transmitter
building electrical
upgrade
Amount: \$1,240.00

Component Description: KET Transmitter
building electrical
upgrade
Amount: \$200.00

Component Description:

KET Transmitter
building electrical
upgrade

Amount:

\$705.00

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
Primary Antenna ATW22H3-ETO-30H	\$555,530.00	\$313,343.28		\$188,064.93	
Sweep test of existing antenna	\$6,730.00	\$19,399.53	Transition requires three sweeps of transmission equipment due to interim transmission line that had to be used. Please see attached Repack Plan Exhibit for details.	\$19,399.53	The additional cost for sweep is due to using existing line for the interim services that required sweep testing before using.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$281,500.00	N/A	\$167,921.65	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$743.75	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$743.75	N/A
Sub-total	\$555,530.00	\$313,343.28	N/A	\$188,064.93	N/A
Total for all systems	\$1,371,381.00	\$1,333,653.78	N/A	\$893,566.67	N/A

Components

Actual Information	
Description	File Name

Sweep test of existing antenna	<p>Component Description: system sweep (35%)</p> <p>Amount: \$6,789.84</p>
	<p>Component Description: system sweep (10%)</p> <p>Amount: \$1,939.95</p>
	<p>Component Description: system sweep (5%)</p> <p>Amount: \$969.98</p>
	<p>Component Description: sweep test (50%)</p> <p>Amount: \$9,699.76</p>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p>Component Description: antenna (less vpol component) 35%</p> <p>Amount: \$58,772.58</p>
	<p>Component Description: antenna (less vpol component) 50%</p> <p>Amount: \$83,960.83</p>
	<p>Component Description: antenna (less vpol component) (5%)</p> <p>Amount: \$8,396.08</p>
	<p>Component Description: antenna (less vpol component) (10%)</p> <p>Amount: \$16,792.16</p>

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized

Component Description: Antenna (35%)
less vertical polarization component
Amount: \$58,772.57

Component Description: antenna (50%)
less vertical polarization component
Amount: \$83,960.83

Component Description: Antenna and Line Spec
Amount: \$437.50

Component Description: Antenna gain and TPO Evaluation and revision of specifications
Amount: \$306.25

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	\$11,600.00	\$37,645.00		\$37,644.96	
Rigid Transmission Line - copper, 6 1/8" broadband	\$11,600.00	\$37,645.00	For those sites that already have 6 1/8" broadband line, a section or two of additional line is needed to connect to the antenna /elbow complex.	\$37,644.96	N/A
Sub-total	\$11,600.00	\$37,645.00	N/A	\$37,644.96	N/A
Total for all systems	\$1,371,381.00	\$1,333,653.78	N/A	\$893,566.67	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line -
copper, 6 1/8" broadband

Component Description: transmission line
(35%)
Amount: \$13,175.74

Component Description: transmission line
(10%)
Amount: \$3,764.50

Component Description: transmission line
(50%)
Amount: \$18,822.48

Component Description: transmission line
(5%)
Amount: \$1,882.24

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 TOWER	\$406,800.00	\$598,000.00		\$473,176.40	
Tall Tower (greater than 500')	\$210,500.00	\$365,000.00	KET obtained quotation of realistic scope of tower rigging work from reputable supplier. Please see attached Tower Work exhibit.	\$272,492.03	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$196,000.00	WKMR tower required more extensive modifications to meet Revision G standards than was initially anticipated.	\$190,684.37	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	\$10,000.00	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.	\$0.00	N/A
Sub-total	\$406,800.00	\$598,000.00	N/A	\$473,176.40	N/A
Total for all systems	\$1,371,381.00	\$1,333,653.78	N/A	\$893,566.67	N/A

Components

Actual Information	
Description	File Name

Tall Tower (greater than 500')

Component Description: installation services (35%)
Amount: \$94,833.15

Component Description: installation services (50%)
Amount: \$135,475.93

Component Description: eComm administration and support, and distribution services at the time of bidding - Electronics Research Inc contract
Amount: \$1,540.17

Component Description: installation services (5%)
Amount: \$13,547.59

Component Description: installation services (10%)
Amount: \$27,095.19

Minor tower reinforcement
/modifications

Component Description: eComm admin and support, distribution services at time of bidding -- Allstate Tower contract
Amount: \$637.50

Component Description: Bid Phase Only - RFB-198-18 billed for rebid distribution services only (Allstate Tower contract)
Amount: \$46.87

Component Description: contracts, bonds, insurance; engineering drawings complete; materials accepted by EOR; mobilization to site; installation complete
Amount: \$190,000.00

<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<table> <tr> <td data-bbox="715 174 1023 210">Component Description:</td> <td data-bbox="1155 174 1337 210">Tower Mapping</td> </tr> <tr> <td data-bbox="715 219 826 255">Amount:</td> <td data-bbox="1155 219 1273 255">\$1,373.00</td> </tr> <tr> <td data-bbox="715 353 1023 389">Component Description:</td> <td data-bbox="1155 353 1374 389">Mapping Complete</td> </tr> <tr> <td data-bbox="715 398 826 434">Amount:</td> <td data-bbox="1155 398 1289 434">\$10,000.00</td> </tr> <tr> <td data-bbox="715 533 1023 568">Component Description:</td> <td data-bbox="1155 533 1342 645">TIA Tower Inspections and Load Audits</td> </tr> <tr> <td data-bbox="715 654 826 689">Amount:</td> <td data-bbox="1155 654 1273 689">\$1,726.04</td> </tr> <tr> <td data-bbox="715 788 1023 824">Component Description:</td> <td data-bbox="1155 788 1289 869">Foundation Mapping</td> </tr> <tr> <td data-bbox="715 878 826 913">Amount:</td> <td data-bbox="1155 878 1273 913">\$4,000.00</td> </tr> </table>	Component Description:	Tower Mapping	Amount:	\$1,373.00	Component Description:	Mapping Complete	Amount:	\$10,000.00	Component Description:	TIA Tower Inspections and Load Audits	Amount:	\$1,726.04	Component Description:	Foundation Mapping	Amount:	\$4,000.00
Component Description:	Tower Mapping																
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Component Description:	Foundation Mapping																
Amount:	\$4,000.00																
<p>Load Study</p>	<table> <tr> <td data-bbox="715 1048 1023 1084">Component Description:</td> <td data-bbox="1155 1048 1310 1115">Geotechnical Studies</td> </tr> <tr> <td data-bbox="715 1124 826 1160">Amount:</td> <td data-bbox="1155 1124 1273 1160">\$2,310.00</td> </tr> </table>	Component Description:	Geotechnical Studies	Amount:	\$2,310.00												
Component Description:	Geotechnical Studies																
Amount:	\$2,310.00																

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$64,250.00	\$63,335.50		\$17,144.82	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,810.50	actual costs for legal fees for phase 3 exceeded estimates	\$2,600.50	actual expenses for phase 3 of repack legal fees exceeded estimated cost
Progress and Transition Reports	<i>\$4,000.00</i>	\$4,000.00	Engineering consultant costs not otherwise listed.	\$1,750.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	KET requires RFR study of this site with co-located broadcast facilities.	N/A	N/A
Project management of the transition	\$12,640.00	\$12,000.00	KET Staff require outside services to manage the upgrades.	\$3,102.95	N/A

Prepare and or review reimbursement form	\$2,630.00	\$4,025.00	Additional engineering was required during the antenna design phase requiring 399 modification.	\$4,025.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$721.87	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,887.50	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
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$2,057.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	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	N/A	N/A
Sub-total	\$64,250.00	\$63,335.50	N/A	\$17,144.82	N/A
Total for all systems	\$1,371,381.00	\$1,333,653.78	N/A	\$893,566.67	N/A

Components

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

Component Description: phase 3 repack
legal fees
Amount: \$1,192.50

Component Description: analysis re: repack
status; prepare re:
repack status and
upcoming
obligations and
deadlines;
research for same
Amount: \$210.00

Component Description: attorney fees
Amount: \$564.00

Component Description: Second Installment
Amount: \$234.50

Component Description: First Installment
Amount: \$49.50

Component Description: public notice;
analysis re: linked
station set and
upstream and
downstream
dependencies
Amount: \$140.00

Component Description: prepare email re:
upcoming repack
deadlines;
research and
analysis re: PSA
scripts
Amount: \$210.00

Progress and Transition Reports	Component Description: quarterly report Amount: \$787.50
	Component Description: quarterly report Amount: \$962.50
RF Exposure Measurements	Information not provided.
Project management of the transition	Component Description: travel expenses Amount: \$609.65
	Component Description: project management Amount: \$87.50
	Component Description: travel expenses Amount: \$18.00
	Component Description: travel expenses Amount: \$847.06
	Component Description: travel expenses Amount: \$18.00
	Component Description: project management Amount: \$43.75
	Component Description: travel expenses Amount: \$10.78

Component Description: linked station
analysis
Amount: \$175.00

Component Description: project
management
Amount: \$87.50

Component Description: Travel expenses
Amount: \$557.12

Component Description: project
management
Amount: \$175.00

Component Description: Travel expenses
Amount: \$429.84

Component Description: Project
management
tasks; other
charges are non-
repack activities
Amount: \$43.75

Prepare and or review
reimbursement form

Component Description: First Installment
Amount: \$2,450.00

Component Description: Antenna Spec
Review, Modify
transition plan,
update CP, 399
input and support
Amount: \$1,575.00

Perform engineering study for new channel assignment and antenna development	Component Description:	linked station analysis
	Amount:	\$175.00
	Component Description:	Linked station neighbor analysis
	Amount:	\$262.50
	Component Description:	Review of site documentation and antennas, facility planning
	Amount:	\$459.37
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	First Installment
	Amount:	\$1,575.00
	Component Description:	Antenna and transmission line bid spec review & bid response review
	Amount:	\$700.00
	Component Description:	Hitachi and Gates Response review, new antenna and line specs
	Amount:	\$525.00
	Component Description:	New antenna and line specs
	Amount:	\$87.50
	Component Description:	N/A
	Amount:	N/A

<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>												
<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="708 371 1139 443">Component Description: Amount:</td> <td data-bbox="1139 371 1426 443">Fifth Installment \$495.00</td> </tr> <tr> <td data-bbox="708 551 1139 622">Component Description: Amount:</td> <td data-bbox="1139 551 1426 622">Third Installment \$99.00</td> </tr> <tr> <td data-bbox="708 730 1139 801">Component Description: Amount:</td> <td data-bbox="1139 730 1426 801">Second Installment \$925.00</td> </tr> <tr> <td data-bbox="708 909 1139 981">Component Description: Amount:</td> <td data-bbox="1139 909 1426 981">First Installment \$99.00</td> </tr> <tr> <td data-bbox="708 1088 1139 1160">Component Description: Amount:</td> <td data-bbox="1139 1088 1426 1160">Fourth Installment \$389.50</td> </tr> <tr> <td data-bbox="708 1267 1139 1339">Component Description: Amount:</td> <td data-bbox="1139 1267 1426 1339">repack CP \$49.50</td> </tr> </table>	Component Description: Amount:	Fifth Installment \$495.00	Component Description: Amount:	Third Installment \$99.00	Component Description: Amount:	Second Installment \$925.00	Component Description: Amount:	First Installment \$99.00	Component Description: Amount:	Fourth Installment \$389.50	Component Description: Amount:	repack CP \$49.50
Component Description: Amount:	Fifth Installment \$495.00												
Component Description: Amount:	Third Installment \$99.00												
Component Description: Amount:	Second Installment \$925.00												
Component Description: Amount:	First Installment \$99.00												
Component Description: Amount:	Fourth Installment \$389.50												
Component Description: Amount:	repack CP \$49.50												
<p>ASR modification (prepare FCC Form 854)</p>	<p>Information not provided.</p>												
<p>FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase</p>	<p>Information not provided.</p>												

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	\$41,501.00	\$34,951.00		\$27,390.43	
DTV Medical Facility Notification	\$11,550.00	\$5,000.00	GBC estimate based on known quotations	\$1,587.50	N/A
Equipment Storage	<i>\$500.00</i>	\$500.00	GBC estimate	N/A	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

Develop and air announcement of upcoming channel change	<i>\$23,951.00</i>	\$23,951.00	In order to run a notification crawl, it was necessary for KET to purchase a device that would insert the crawl into the ASI stream. Since KET has multiple video channels (1 HD & 3 SD) in the ASI stream, it required a device at WKHA and WKMR.	\$23,950.14	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.	\$1,418.75	N/A
Internal Labor	<i>\$2,000.00</i>	\$2,000.00	N/A	\$434.04	N/A
Sub-total	\$41,501.00	\$34,951.00	N/A	\$27,390.43	N/A
Total for all systems	\$1,371,381.00	\$1,333,653.78	N/A	\$893,566.67	N/A

Components

Actual Information Description	File Name
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DTV Medical Facility Notification	<p>Component Description: medical notification</p> <p>Amount: \$1,587.50</p>
Equipment Storage	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Develop and air announcement of upcoming channel change	<p>Component Description: device for notification crawl</p> <p>Amount: \$23,950.14</p>
MVPD Notification of Channel Change	<p>Component Description: Prepare letters to MVPDs. Research and contact all relevant MVPD entities impacted by station move by mail and/or email. Prepare report for station.</p> <p>Amount: \$1,418.75</p>

Internal Labor

Component Description: payroll expenses
for internal labor
Amount: \$37.54

Component Description: payroll expenses
for internal labor
Amount: \$57.54

Component Description: payroll expenses
for internal labor
Amount: \$66.91

Component Description: payroll expenses
for internal labor
Amount: \$34.52

Component Description: payroll expenses
for internal labor
Amount: \$71.76

Component Description: payroll expenses
for internal labor
Amount: \$58.43

Component Description: payroll expenses
for internal labor
Amount: \$69.49

Component Description: payroll expenses
for internal labor
Amount: \$37.85

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$1,371,381.00	\$1,333,653.78	\$893,566.67

Reimbursement Status

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

Certification	Section	Question	Response
	<p>Submission of Estimated Expenses Statements</p>	<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 data-bbox="758 772 1053 1176">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 data-bbox="758 1198 1037 1444">2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. <li data-bbox="758 1467 1045 1747">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 above-named applicant for the Authorization(s) specified above.

Shae Hopkins
Executive Director

09/26/2019

Certification	Section	Question	Response
	<p>Submission of Actual Cost Documentation Statements</p>	<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"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. 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 above-named applicant for the Authorization(s) specified above.

Shae Hopkins
Executive Director

09/26/2019

Attachments