

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	34204	Service: DTV	Call	WCVN-TV	Channel: 22 (UHF)	
ID:			Sign:			
File	000002	26897				
Number:						
FRN: 000	01790583	Date	10/03			
		Submitted:	/2019			

Applicant Name, Type, and Contact Information

Information

Applicant	Address	Phone	Email	Applicant Type
KENTUCKY AUTHORITY FOR EDUCATIONAL TV Doing Business As: 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information				
Contact Information	Applicant	Address	Phone	Email	
Information	Greg Best Consulting Engineer Greg Best Consulting, Inc.	Greg Best 16100 Outlook Avenue Stilwell, KS 66085 United States	+1 (816) 792- 2913	gbconsulting54@gmail. com	

Broadcaster	Question	Response
Information and Transition Plan	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	Existing Transmitter Information					
Transmitter	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	DHD20P1			
		Year	2001			
		Туре	Solid State			
		Solid State Cooling	Air Cooled			
		Solid State Power Capacity	5 kW			

Existing Transmitter Information

Primary	New Transmitter Costs					
Transmitter	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	Other Transmitter Costs					
Transmitter	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
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Other Transmitter Cost Not Listed

Primary Other Transmitter Co Transmitter Information not provided.

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information				
Antenna	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	Class	Full Power		
	Manufacturer and Type	Mounting	Side Mount		
		Antenna position in stack	Not in Stack		
		Polarization	Horizontal		
		Туре	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	New Antenna Costs			
Antenna	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	Class	Full Power	
	Manufacturer and Types	Mounting	Top 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)	39.9 kW	
		Manufacturer		
			1	

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.

Costs Oth Δ nt

Primary

Antenna		
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Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	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	3 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Other Antenna Cost Not Listed

Antenna Informatio

Information not provided.

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

Primary	Existing Transmission Line			
Transmissio	on 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	Manufacturer		
	Line Manufacturer and Type	Туре	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	

Existing Transmission Line

Primary	New Transmission Line			
Transmissio	n 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	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.	

Other Transmission Line Expenses Not Listed Transmission

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

Existing Tower

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 (Latitude (NAD83)	39° 01' 51.0" N-	
	North American Datum of 1983))	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

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

Primary Tower Rigging Costs

Tower

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

Primary Other Tower Expenses Not Listed

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

Outside Professional	Section	Question	Response
	I Services Costs 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	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professiona	Other Professional Services Expenses Not Listed	
	Services Costs	Description

ssional	Refuees Costs	Description
	Progress and Transition Reports	Engineering consultant costs not otherwise listed.

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	Yes
		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	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 Not Listed

Other	Other Expenses Not Listed			
Expenses	Name	Description		
	Internal Labor	FCC Reimbursement Clerk hired for repack reimbursement ONLY		

Transmitters

Cost Information

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	
3" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,450.00	N/A	N/A	N/A
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
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	\$705,032.48	N/A

Components

Actual Information Description	File Name
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

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

/800 amp/208 volt	Component Description:	KET transmitter building electrical
		upgrades
	Amount:	\$120.00
	Component Description:	KET transmitter building electrical
	Amount:	upgrade \$60.00
	Component Description:	KET Transmitter building electrical
	Amount:	upgrade \$50.00
	Component Description:	KET Transmitter building electrical
	Amount:	upgrade \$730.00
	Component Description:	KET transmitter
	Amount:	building electrical upgrade \$445.50
	Component Description:	KET Transmitter
	Amount:	Building Electrical Upgrade \$6.00
	Component Description:	KET transmitter
	Amount:	building electrical upgrade \$205.00
Switchgear - industrial 800	Information not provided.	

Antennas

Cost Information

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 ATW17H3- ETO-22H	\$303,830.00	\$254,900.00		\$125,035.25	
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
Sub-total	\$303,830.00	\$254,900.00	N/A	\$125,035.25	N/A
Total for all systems	\$1,040,100.00	\$1,256,412.29	N/A	\$705,032.48	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	Component Description:	antenna (less
or circularly polarized		vpol) and
or onourany polarizou		replacement
		lighting (50%)
	Amount:	\$67,120.00
	Component Description:	antenna (less
		vpol) and
		replacement
		lighting (35%)
	Amount:	\$46,984.00
	Component Description:	Antenna gain and
		TPO Evaluation
		and revision of
		specifications
	Amount:	\$306.25
Sweep test of existing		
antenna	Component Description:	system sweep
		(35%)
	Amount:	\$4,375.00
	Component Description:	system sweep
		(50%)
	Amount:	\$6,250.00

Transmission Line

Cost Information

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	\$705,032.48	N/A

Components

Actual Information	
Description	File Name

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

Tower Equipment and Rigging Costs

Cost Information

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	\$308,980.00	\$563,980.00		\$402,237.35	
Load Study	\$12,000.00	\$12,000.00	Structural engineering tower load study is required to design tower reinforcements and rigging.	\$9,550.00	N/A
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	\$28,480.00	\$28,480.00	Crane was required to displace backhaul fiber line in order to allow antenna installation to occur.	\$28,480.00	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
Sub-total	\$308,980.00	\$563,980.00	N/A	\$402,237.35	N/A
Total for all systems	\$1,040,100.00	\$1,256,412.29	N/A	\$705,032.48	N/A

Components

Actual Information Description

File Name

Component Description:	Second Installment Geotechnical
Amount:	Studies \$4,690.00
Component Description:	First Installment Geotechnical
Amount:	Studies \$2,310.00
Component Description:	Second Installment Tower Structural
Amount:	Analysis \$450.00
Component Description:	First Installment Tower Structural
Amount:	Analysis \$2,550.00

Load Study

Short Tower (less than 500'		1
	Component Description:	installation
	Amount:	services (50%) \$117,416.35
	Amount.	φ117,410.33
	Component Description:	installation
		services (35%)
	Amount:	\$82,191.45
	Component Description:	3rd submission:
		eComm administration and support,
		distribution
		services at time of
		bidding
		Electronics
		Research, Inc. contract - RFP-96-
	Amount:	19 \$1,540.17
Crane Services		
	Component Description:	crane services to
		swap top antenna
		(50%)
	Amount:	\$14,240.00
	Component Description:	crane services to
		swap top antenna
		(remaining 50%)
	Amount:	\$14,240.00

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

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

Outside Professional Services

Cost Information

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	\$43,200.00	\$41,250.00		\$11,287.33	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$1,951.50	N/A
Progress and Transition Reports	\$4,000.00	\$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
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

Sub-total	\$43,200.00	\$41,250.00	N/A	\$11,287.33	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$481.25	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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,712.50	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

Components

Actual Information Description	File Name	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	prepare chart re: WCVN's repack dependencies and linked station set
	Amount:	\$105.00
	Component Description:	reminder and research re: quarterly repack report and progress reports
	Amount:	\$134.00
	Component Description: Amount:	repack issues re: reimbursement process; engaging a project manager; email re: same \$198.00
	Component Description: Amount:	email reminder re: repack progress report; prepare summary and email re: dependencies \$70.00
	Component Description:	email re: FCC shutdown, repack filings, other repack related work during shutdown; work on MVPD notifications and obligations
	Amount:	\$544.50

Component Description: Amount:	work on transition timing and other issues for repack \$148.50
Component Description: Amount:	Second Installment Attorney Fees 2100 \$320.50
Component Description:	public notice; repack & coordination of linked station for testing and sequence of transitioning stations \$134.00
Component Description: Amount:	Environmental review \$49.50
Component Description: Amount:	First Installment Attorney Fees 2100 \$49.50
Component Description:	work on review and analysis of RFP for repack reimbursement assistance \$198.00

Progress and Transition Reports	Component Description: Amount:	quarterly progress report \$437.50
	Component Description: Amount:	quarterly progress report \$350.00
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description:	notice of proposed tower height increase in newspaper & online
	Amount: Component Description: Amount:	\$143.93 FAA Inquiry \$350.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Second Installment Attorney Fees \$839.00
	Component Description: Amount:	Third Installment Attorney Fees \$99.00
	Component Description: Amount:	First Installment Attorney Fees \$99.00
	Component Description: Amount:	Fourth Installment Attorney Fees \$198.00

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	Component Description:	Hitachi and GatesAir response review, new antenna and line specs
	Amount:	\$525.00
	Component Description:	new antenna and line specs
	Amount:	\$87.50
	Component Description:	First Installment CP Prepare
	Amount:	\$1,400.00
	Component Description:	Antenna and transmission line bid spec review and bid response review
	Amount:	\$700.00

for new channel assignment and antenna	Component Description:	Non-Reimbursable
development	Amount:	\$0.00 requested N/A
	Component Description:	Third Installment Engineering Study
	Amount:	\$2,100.00
	Component Description:	Review of site documentation an antennas, facility
	Amount:	planning \$459.37
	Component Description:	First Installment Engineering Study
	Amount:	\$459.37
	Component Description:	Linked station neighbor analysis
	Amount:	\$262.50
Prepare and or review reimbursement form		First Installes and
	Component Description:	First Installment 399 Form
	Amount:	\$1,400.00
	Component Description:	Second Installmer
	Amount:	399 Form \$87.50

Project management of the transition	Component Decovirtions	
	Component Description: Amount:	travel expenses \$10.78
		\$10.10
	Component Description:	project
		management
	Amount:	\$175.00
	Component Description:	traval oxponsos
	Amount:	travel expenses \$294.50
	Anount.	Ψ234.00
	Component Description:	Travel expenses -
		invoice number
		highlighted and labeled
	Amount:	\$156.25
		\$100i20
	Component Description:	project
		management
	Amount:	\$87.50
	Component Description:	project
		management tasks
	Amount:	\$87.50
	Component Description:	Travel expenses -
		INVOICE
		NUMBER noted on
		travel voucher
	Amount:	\$561.00
	Component Description:	project
		management
	Amount:	\$43.75

FCC Form 854)	Component Description:	ASR mod app followup
	Amount:	\$131.25
	Component Description:	ASR Issue
		Resolution
	Amount:	\$350.00

Other Expenses

Cost Information

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	\$47,990.00	\$40,000.00		\$3,140.28	
MVPD Notification of Channel Change	\$1,500.00	\$1,500.00	KET estimate to search for and notify all cable companies.	\$1,118.75	N/A
Internal Labor	\$2,000.00	\$2,000.00	N/A	\$434.03	N/A
Develop and air announcement of upcoming channel change	\$1,500.00	\$1,500.00	KET estimate for developing and airing announcement.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$2,000.00	\$2,000.00	KET estimate based on known costs.	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
AM Pattern Disturbance Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
AM Pattern Disturbance Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A
Equipment Storage	\$500.00	\$500.00	GBC estimate	N/A	N/A
Sub-total	\$47,990.00	\$40,000.00	N/A	\$3,140.28	N/A

Total for all	\$1,040,100.00	\$1,256,412.29	N/A	\$705,032.48	N/A
systems					

Components

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description:	prepare letters to MVPDs, research and contact all MVPDs, prepare
	Amount:	report for station \$1,118.75

Internal Labor

Develop and air

channel change

Component Description: payroll expenses for internal labor \$57.54 Amount: **Component Description:** payroll expenses for internal labor Amount: \$37.85 **Component Description:** payroll expenses for internal labor Amount: \$37.55 **Component Description:** payroll expenses for internal labor Amount: \$58.43 **Component Description:** payroll expenses for internal labor \$71.75 Amount: **Component Description:** payroll expenses for internal labor Amount: \$69.49 **Component Description:** payroll expenses for internal labor \$66.91 Amount: **Component Description:** payroll expenses for internal labor Amount: \$34.51 Information not provided. announcement of upcoming

Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	medical notification \$1,587.50
AM Pattern Disturbance Remedy	Information not provided.	
AM Pattern Disturbance Impact study	Information not provided.	
Equipment Storage	Information not provided.	

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$1,040,100.00	\$1,256,412.29	\$705,032.48

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

Certification	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.	
		 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. 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).
- 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 10/03/2019

Certification	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).	
		 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).
- 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.

	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
an aut name	are, under penalty of perjury, that I am chorized representative of the above- d applicant for the Authorization(s) ied above.	Shae Hopkins Executive Director
		10/03/2019

Attachments