Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **59444** | Service: **DTV** | Call Sign: **KSHB-TV** | Channel: **36 (UHF)**

File Number: **0000027266**

FRN: **0002710192** | Date Submitted: **12/22/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
SCRIPPS BROADCASTING HOLDINGS LLC	David Giles 312 WALNUT STREET 28TH FLOOR CINCINNATI, OH 45202 United States	+1 (513) 977-3000	DAVE.GILES@SCRIPPS.COM	Limited Liability Company

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
Ray Thurber *SCRIPPS BROADCASTING HOLDINGS LLC*	Ray Thurber 312 Walnut St. Cincinnati, OH 45202 United States	+1 (248) 827-9202	ray.thurber@scripps.com

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	KSHB must replace its main and auxiliary antenna and main and auxiliary transmitter in order to move it its new channel.

Transmitters

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

Auxiliary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup Auxiliary
	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	HP25SDW
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25.0 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Current Axcera transmitter is orphaned and no longer supported by the manufacturer. It cannot be retuned. Higher power is required because the antenna was moved to a lower height on the tower.

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes

	Power	300 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Necessary switchgear, transformer, conduit, wiring, and fuse disconnects as quoted by electrical contractor for auxiliary transmitter.
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 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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

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	HP60DDW
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60.0 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-120
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	66.6 kW
	Justification for New Transmitter	Current Axcera transmitter is orphaned and no longer supported by the manufacturer. Parts are in very limited supply or not available. It cannot be re-tuned. Current transmitter has headroom. Station asking for 1 step-up.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No

	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Necessary switchgear, transformer, conduit, wiring, and fuse disconnects as quoted by electrical contractor for primary transmitter.
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 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

Primary Transmitter	**Other Transmitter Cost Not Listed** Information not provided.

Antennas

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

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	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	Elliptical
	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)	1000.0 kW

Manufacturer	
Model	TFU-30DSC-R 4C130DC
Year	2003

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

Facility ID	Call Sign
42636	KMCI-TV

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Backup Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	14
	Lower Limit	470.00 MHz
	Upper Limit	728.00 MHz
	Design power capacity in use	80.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	TUA-04-14 /56H-1-S
Year	2018
Justification for New Antenna	Existing KSHB auxiliary antenna is a side-mounted coaxial slot antenna. The existing KMCI auxiliary is also a side-mounted coaxial slot antenna. To save money in the repack, Scripps is proposing to combined these facilities into a single antenna located

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A

	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for 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

Enter a list of RF channel numbers.

RF Channel Number
36
25

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

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?	Yes
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	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	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)	730.0 kW

Manufacturer	
Model	TFU-30GTH /VP-R O6 DC 4241
Year	2009

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

Facility ID	Call Sign
42636	KMCI-TV

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?	No
	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)	647.0 kW
	Manufacturer	

	Model	TFU-28GTH /VP-R O6
	Year	2018
	Justification for New Antenna	Existing main antenna is a coaxial slot antenna that is channel specific and cannot be reused on the new channel.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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
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?	

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

Auxiliary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup Auxiliary
	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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1060 feet per run

Auxiliary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Backup Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1120 feet per run
	Justification for New Transmission Line	KSHB will share a broadband panel antenna with KMCI. In order to facilitate both stations using the same antenna, the transmission line must be sized for both channels (Ch. 25 and Ch. 36).

Auxiliary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Transmission Line Connectors	Copper line and flanges for connecting the line to the transmitter

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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1180 feet per run

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

Facility ID	Call Sign
42636	KMCI-TV

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	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1180 feet per run
	Justification for New Transmission Line	The current KSHB transmission line has 19-1/2" segment lengths which will not work for the new Ch. 36.

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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1234587
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 58' 42.0" N-
	Longitude (NAD83)	094° 32' 01.8" W-
	Overall Structure Height	1152.87 feet
	Support Structure Height	1099.72 feet
	Ground Elevation Above Mean Sea Level (AMSL)	884.83 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	SCRIPPS MEDIA, INC.
Date Constructed	08/20/2009

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
42636	KMCI-TV	DTV

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
PE Review of Rigging Plan	Professional Engineering review of proposed rigging plan as required by ANSI /ASEE A10.48 and ANSI/TIA 322 standards.
Road Modification	Road Modification for large equipment to be delivered to site required for repack

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	reimbursement filing, expense tracking, vendor coordination, progress reporting, budget creation, budget review, budget tracking, daisy-chain monitoring and all other activities necessary
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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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 Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Site Survey	GatesAir performed a site survey to access changes to facility as necessary to transition to new channel including, power and HVAC requirements, available transmitter room space and existing antenna and transmission line RF characteristics at new channel.

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	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	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
Employee Time	Time needed by Scripps corporate and KSHB employees to work on the transition to a new channel.

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 ULXTE-120	**$1,989,564.32**	**$1,989,564.32**		**$54,329.50**	
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring, and fuse disconnects as quoted by electrical contractor for primary transmitter.	***$59,009.50***	$59,009.50	Please see KSHB-TV Auxiliary and Primary Transmitters - Other Electrical Services Budget Justification Cover Letter. Cost is shared with KMCI and split between KSHB Primary and Auxiliary Transmitters.	$54,329.50	N/A
UHF - Liquid Cooled Solid State Transmitter 66.6 kW	***$1,930,554.82***	$1,930,554.82	Please see GatesAir quotes Q-73346 and GA-00024100	$0.00	N/A
Auxiliary Transmitter ULXTE-50	**$824,745.40**	**$749,745.40**		**$730,702.33**	
Transformer 3 phase /480v - 300 KVA	$36,800.00	$0.00	N/A	$0.00	N/A

Switchgear - industrial 800 amp	$38,200.00	$0.00	N/A	$0.00	N/A
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring, and fuse disconnects as quoted by electrical contractor for auxiliary transmitter.	***$22,778.00***	$22,778.00	KSHB-TV Auxiliary and Primary Transmitters - Other Electrical Services Budget Justification Cover Letter. Cost is shared with KMCI and split between KSHB Primary and Auxiliary Transmitters.	$21,458.00	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	***$726,967.40***	$726,967.40	Please see attached GatesAir Quote Q-62225	$709,244.33	N/A
Sub-total	$2,814,309.72	$2,739,309.72	N/A	$785,031.83	N/A
Total for all systems	$4,757,838.65	$4,449,454.08	N/A	$2,074,938.05	N/A

Components

Actual Information Description	File Name
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring, and fuse disconnects as quoted by electrical contractor for primary transmitter.	**Component Description:** Transmitter Hook-Up **Amount:** $54,329.50

UHF - Liquid Cooled Solid State Transmitter 66.6 kW	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring, and fuse disconnects as quoted by electrical contractor for auxiliary transmitter.	**Component Description:** KSHB-TV-150-1st Auxiliary Transmitter - Other Electrical Services **Amount:** $21,458.00
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	**Component Description:** 1/3 Down Payment **Amount:** $245,989.12 **Component Description:** ULXTE-50 Transmitter per Quote Q-62225 **Amount:** $5,000.00 **Component Description:** ULXTE-50 Transmitter **Amount:** $155,649.79 **Component Description:** Aux Transmitter **Amount:** $56,616.30 **Component Description:** ULXTE-50 Transmitter **Amount:** $245,989.12

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 TFU-28GTH /VP-R O6	**$308,530.00**	**$296,253.17**		**$269,294.23**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$6,400.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$275,000.00	N/A	$252,497.50	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$14,853.17	Per Estimated Cost Justification KSHB-TV-210-Primary Antenna - Elbow Complex v1	$10,396.73	N/A
Auxiliary Antenna TUA-04-14 /56H-1-S	**$291,557.36**	**$223,833.49**		**$220,633.49**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$3,200.00	N/A

UHF â€“ Broadband Panel, Side Mount Auxiliary /Interim, 1000 horizontally polarized	***$200,627.36***	$200,627.36	per Estimated Cost Justification KSHB-TV-250-Auxiliary Antenna - UHF Broadband Panel, Side Mount, H-POL V0	$200,627.36	.
New combiner, cost per channel (without antenna)	$84,200.00	$16,806.13	per Estimated Cost Justification KSHB-TV-250-Auxiliary Antenna - New Combiner V0	$16,806.13	N/A
Sub-total	$600,087.36	$520,086.66	N/A	$489,927.72	N/A
Total for all systems	$4,757,838.65	$4,449,454.08	N/A	$2,074,938.05	N/A

Components

Actual Information Description	**File Name**	
Sweep test of existing antenna	**Component Description:** **Amount:**	INCLUDES ONE FIELD ENGINEER ON-SITE FOR ONE DAY $6,400.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	UHF - HIGH POWER TOP MOUNT $31,327.00
	Component Description: **Amount:**	Antenna $110,585.25
	Component Description: **Amount:**	Antenna $110,585.25
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	Elbow Complex $4,633.88
	Component Description: **Amount:**	Elbow Complex $4,633.88
	Component Description: **Amount:**	KSHB-TV-210-Primary Antenna - Elbow Complex $1,128.97
Sweep test of existing antenna	**Component Description:** **Amount:**	OTHER $3,200.00
UHF â€“ Broadband Panel, Side Mount Auxiliary/Interim, 1000 horizontally polarized	**Component Description:** **Amount:**	ANTENNA $25,393.98
	Component Description: **Amount:**	Antenna for purchase of interim antennas $175,233.38

New combiner, cost per channel (without antenna)	**Component Description:**	KSHB-TV-250-Auxiliary Antenna - New Combiner
	Amount:	$2,124.88
	Component Description:	KSHB-TV-250-Auxiliary Antenna - New Combiner
	Amount:	$14,681.25

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	**$238,360.00**	**$226,560.00**		**$174,361.82**	
Rigid Transmission Line - copper, 6 1/8"	$238,360.00	$226,560.00	N/A	$174,361.82	N/A
Auxiliary Transmission Line	**$479,341.03**	**$166,922.16**		**$164,367.75**	
Rigid Transmission Line - copper, 8 3 /16" broadband	$446,880.00	$134,461.13	see Estimated Cost Justification KSHB-TV-350-Auxiliary Transmission Line - 8 3_16 Broadband Rigid Copper v0	$131,906.72	N/A
Transmission Line Connectors	***$32,461.03***	$32,461.03	see Estimated Cost Justification KSHB-TV-350-Auxiliary Transmission Line - Line Connector v0	$32,461.03	Invoices
Sub-total	$717,701.03	$393,482.16	N/A	$338,729.57	N/A
Total for all systems	$4,757,838.65	$4,449,454.08	N/A	$2,074,938.05	N/A

Components

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** **Amount:**	Transmission Line $6,804.25
	Component Description: **Amount:**	Transmission Line $71,413.96
	Component Description: **Amount:**	ELBOW 6-75 EIA 9 X 9 CU $5,788.53
	Component Description: **Amount:**	FINAL ASSAY - BROADCAST $1,006.25
	Component Description: **Amount:**	FREIGHT, SHIPPING, AND HANDLING $530.48
	Component Description: **Amount:**	TLSCR 6-75 EHT COATED $4,511.01
	Component Description: **Amount:**	RIGID TRANSMISSION LINE - COPPER $1,105.00
	Component Description: **Amount:**	FREIGHT, SHIPPING, AND HANDLING $288.14

	Component Description:	RIGID TRANSMISSION LINE - COPPER
	Amount:	$1,581.00
	Component Description:	KSHB-TV-310-Primary Transmission Line - 6 1/8" Rigid Copper
	Amount:	$9,919.24
	Component Description:	Transmission Line
	Amount:	$71,413.96
Rigid Transmission Line - copper, 8 3/16" broadband	**Component Description:**	KSHB-TV-350-Auxiliary Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	$16,867.71
	Component Description:	KSHB-TV-350-Auxiliary Transmission Line - 8 3/16" Broadband Rigid Copper
	Amount:	$115,039.01

Transmission Line Connectors	**Component Description:**	Other FREIGHT, SHIPPING, AND HANDLING
	Amount:	$801.90
	Component Description:	Pressure Sensor 100KPA
	Amount:	$1,320.90
	Component Description:	Flange Assy 8 3/16 FXD Solder
	Amount:	$4,981.20
	Component Description:	RIGID TRANSMISSION LINE - COPPER
	Amount:	$6,644.45
	Component Description:	Other FREIGHT, SHIPPING, AND HANDLING
	Amount:	$17.50
	Component Description:	ELBOW 8-75 EIA DIGIT 12 X 24
	Amount:	$16,800.00
	Component Description:	Other Freight, Shipping, and Handling
	Amount:	$160.56
	Component Description:	Other Freight, Shipping and Handling
	Amount:	$1,734.52

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	**$251,360.00**	**$420,260.00**		**$353,460.00**	
Road Modification	***$24,510.00***	$24,510.00	Please see HomeMeister LLC Estimate	$24,510.00	N/A
Tall Tower (greater than 500')	$210,500.00	$380,000.00	PCI quoted cost (quote attached) for rigging for both main and auxiliary antennas that need to be replaced. (Sweep test costs have been.)	$325,900.00	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	$3,050.00	N/A
PE Review of Rigging Plan	***$3,750.00***	$3,750.00	Cost split with KMCI.	$0.00	N/A
Sub-total	$251,360.00	$420,260.00	N/A	$353,460.00	N/A
Total for all systems	$4,757,838.65	$4,449,454.08	N/A	$2,074,938.05	N/A

Components

Actual Information Description	File Name	
Road Modification	**Component Description:** **Amount:**	Deposit Road Rebuilding $12,255.00
	Component Description: **Amount:**	Total Cost of Project as estimated $12,255.00

Tall Tower (greater than 500')	**Component Description:** **Amount:**	Balance due on completion $62,680.00
	Component Description: **Amount:**	Amount due upon acceptance $125,320.00
	Component Description: **Amount:**	Amount due on proposal acceptance $68,020.00
	Component Description: **Amount:**	Per Precision Communications, Inc. Addendum to Proposal 18835-6 for March and April 2019 Weather Days, work performed outside scope of work, and additional engineering charge $26,875.00
	Component Description: **Amount:**	11/12/18 Weather day due to snow and high wind $43,005.00
Structural engineering tower load study for well documented tower	**Component Description:** **Amount:**	Analysis of 1100' guyed tower for re-pack $3,050.00
PE Review of Rigging Plan	Information not provided.	

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	**$153,690.00**	**$156,190.00**		**$89,438.40**	
Attorney Fees - Prepare and File request for Special Temporary Authorization	$7,360.00	$7,000.00	N/A	$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	$0.00	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	$4,210.00	$4,000.00	N/A	$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$0.00	N/A
Project management of the transition	$94,010.00	$99,675.00	Widelity Strategic Support Quote	$85,858.40	N/A

Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	$0.00	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$2,505.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$250.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	$2,105.00	$2,000.00	N/A	$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	$0.00	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	$1,580.00	$1,500.00	N/A	$0.00	N/A
Prepare request for Special Temporary Authorization	$4,100.00	$3,000.00	N/A	$825.00	N/A
Site Survey	***$13,765.00***	$13,765.00	N/A	$0.00	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	$0.00	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	$0.00	N/A
Sub-total	$153,690.00	$156,190.00	N/A	$89,438.40	N/A
Total for all systems	$4,757,838.65	$4,449,454.08	N/A	$2,074,938.05	N/A

Components

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

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Project management of the transition	**Component Description:** Project Management **Amount:** $8,895.15 **Component Description:** Project management **Amount:** $2,991.80 **Component Description:** Project Management **Amount:** $4,606.55 **Component Description:** Project Management **Amount:** $7,027.20 **Component Description:** Project Management **Amount:** $572.80 **Component Description:** Project Management **Amount:** $2,787.70

Component Description:	Project Management
Amount:	$848.30
Component Description:	FCC Repack
Amount:	$37.50
Component Description:	Project Management
Amount:	$6,543.30
Component Description:	Project Management
Amount:	$64.95
Component Description:	Project Management
Amount:	$741.05
Component Description:	Preparation of Q4 2018 387 Update
Amount:	$150.00
Component Description:	FOR SERVICES RENDERED
Amount:	$75.00
Component Description:	Project Management
Amount:	$6,598.45
Component Description:	Project Management
Amount:	$7,191.40

Component Description:	Project Management
Amount:	$2,231.45
Component Description:	Project Management
Amount:	$8,401.20
Component Description:	Project Management
Amount:	$8,689.95
Component Description:	387 - Five Days After Move to Post-Repack Channel
Amount:	$75.00
Component Description:	Project Management
Amount:	$8,844.55
Component Description:	Project Management
Amount:	$2,955.95
Component Description:	FOR SERVICES RENDERED
Amount:	$75.00
Component Description:	FOR SERVICES RENDERED
Amount:	$195.00
Component Description:	Project Management
Amount:	$5,259.15

Prepare and or review reimbursement form	Information not provided.
Perform engineering study for new channel assignment and antenna development	**Component Description:** Preparation of Justification for Auxiliary Transmitter **Amount:** $450.00 **Component Description:** Pre-filter tpo Calculations for KSHB **Amount:** $75.00 **Component Description:** FCC Repack **Amount:** $1,980.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** Permitting Analysis Review **Amount:** $250.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.

Prepare request for Special Temporary Authorization	**Component Description:** **Amount:**	KSHB-TV-530-RF Eng - Special Temporary Authorization $825.00
Site Survey	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	

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 Co Justificati
Other Expenses	**$220,690.54**	**$220,125.54**		**$18,350.53**	
Employee Time	***$124,916.00***	$124,916.00	N/A	$0.00	N/A
MVPD Notification of Channel Change	***$3,316.54***	$3,316.54	per KSHB DTVNotification PO 3003044956, Estimate EST-001039	$3,316.54	N/A
Develop and air announcement of upcoming channel change	***$5,000.00***	$5,000.00	N/A	$0.00	N/A
Equipment Storage	***$20,000.00***	$20,000.00	N/A	$5,822.20	N/A
Equipment Delivery and Handling Charges	***$27,978.00***	$27,978.00	Cost of shipping KSHB main top-mount antenna and transmission line, half the cost of shipping the shared (with KMCI) auxiliary antenna and the half the cost of the lift rentals for handling the antennas and line.	$3,080.39	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	***$25,000.00***	$25,000.00	N/A	$0.00	N/A
Non-zoning permits	***$2,400.00***	$2,400.00	see Estimated Cost Justification KSHB-TV-610-Non-Zoning Permits v0	$2,150.00	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	$0.00	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	$0.00	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$3,981.40	N/A
Sub-total	$220,690.54	$220,125.54	N/A	$18,350.53	N/A
Total for all systems	$4,757,838.65	$4,449,454.08	N/A	$2,074,938.05	N/A

Components

Actual Information Description	File Name
Employee Time	Information not provided.
MVPD Notification of Channel Change	**Component Description:** MVPD Notification Services **Amount:** $3,316.54

Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	**Component Description:** **Amount:**	40' Double Door Container $5,822.20
Equipment Delivery and Handling Charges	**Component Description:** **Amount:**	Freight, Shipping and Handling $3,080.39
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Non-zoning permits	**Component Description:** **Amount:**	AFF prepared and submitted Permitting $2,150.00
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	DTV Notification Service $3,981.40

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$4,757,838.65	$4,449,454.08	$2,074,938.05

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
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Sravan V Reddy , Reddy .** *Senior Director, General Accounting* 12/22/2020

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).	
	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.	**Sravan V Reddy , Reddy .** *Senior Director, General Accounting* 12/22/2020

Attachments