

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File	35843 000002	Service: DTV 8534	Call Sign:	KSTC-TV	Channel: 30 (UHF)
Number:					
FRN: 000	9769514	Date	06/19		
		Submitted:	/2019		

Applicant Name, Type, and Contact Information

Information

Applicant	Address	Phone	Email	Applicant Type
KSTC-TV, LLC Doing Business As: KSTC-TV, LLC	David A. Jones 3415 UNIVERSITY AVENUE, WEST ST. PAUL, MN 55114 United States	+1 (651) 642-4334	djones@hbi. com	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Preparer Contact Name and Information

Charles NaftalinCharles Naftalin+1 (202) 457- rotarles.naftalin@hklaw.Legal Counsel to Licensee800 17th Street, NW7040comHolland & Knight LLPSuite 1100 Washington, DC 20006 United States	Contact Information	Applicant	Address	Phone	Email
		Legal Counsel to Licensee	800 17th Street, NW Suite 1100 Washington, DC 20006		

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.	Yes
	Briefly describe transition plan	See Exhibit 1.

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

Auxiliary	Add Transmitter Information					
Transmitter	Section	Question	Response			
	Existing Transmitter Description	Type of change	Purchase New			
		Use	Auxiliary (Backup)			
		Description of Use	Backup transmitter			
		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	DHD-20P1			
		Year	2002			
		Туре	Solid State			
		Solid State Cooling	Air Cooled			
		Solid State Power Capacity	20 kW			

Auxiliary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Auxiliary (Backup)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	No			
		Manufacturer				
		Model	UAXTE- 12R44			
		Transmitter Type	Solid State			
		Solid State Cooling	Air Cooled			
		Solid State Power capacity	12 kW			
		Justification for New Transmitter	See Exhibit 1.			

Auxiliary Other Transmitter Costs

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Transmitter	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	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

Transmitter Name Description UHF inside RF system See Exhibit 1.	Auxiliary	Other Transmitter Cost Not Listed		
UHF inside RF system See Exhibit 1.	Transmitter	Name	Description	
		UHF inside RF system	See Exhibit 1.	

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	HP140DAW			
		Year	2000			
		Туре	Inductive Output Tube			
		IOT Power Type	Two			
		Power Capacity	50 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?	Yes
		Manufacturer	
		Model	THU9evo-48
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	73.5 kW
		Justification for New Transmitter	See Exhibit 1, August 2017 Supplement, August 26, 2019 Letter and Master Electric Company, Inc. Quote.

Other Transmitter Costs

Primary	Other Transmitter Costs			
Transmitter	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	See attached quote from Master Electrical Company, Inc.
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

Primary Other Transmitter Cost Not Listed

Transmitter Information not provided.

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

Auxiliary	Add Antenna Information				
Antenna	Section	Question	Response		
	Existing Antenna Description	Type of change	Purchase New		
		Antenna Use	Auxiliary (Backup)		
		Description of Use	Currently able to assist with transition and then to transition to new channel. See Exhibit 1.		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this antenna currently shared with any other stations?	No		
		Is this antenna directional?	Yes		
		Is antenna in operating condition?	Yes		
		Is antenna located on or in close proximity to an antenna farm?	Yes		
	Existing Antenna Manufacturer and Type	Class	Full Power		
		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)	1000.0 kW
Manufacturer	
Model	TFU- 36JSMR
Year	1999

Auxiliary	New Antenna Costs		
Antenna	Section	Question	Response
	New Antenna Description	Use	Auxiliary (Backup)
		Description of Use	To limit any disruption to broadcast services during transition. See Exhibit 1.
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	Yes
		Will antenna be located on or in close proximity to an antenna farm?	Yes
	New Antenna	Class	Full Power
	Manufacturer and Types	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		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)	500.0 kW
Manufacturer	
Model	TFU- 24JSC- RT140
Year	2017
Justification for New Antenna	See Exhibit 1.

Auxiliary	Other Antenna Costs				
Antenna	Section	Question	Response		
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No		
		Туре			
		Number of channels supported	N/A		
		Frequencies of channels supported	N/A		
		Frequency	N/A		
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A		
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes		
		Broadband or Single Channel?	Single Channel		
		Feed Line Size	8 3/16 inches inches		
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes		

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Auxiliary
AntennaOther Antenna Cost Not ListedInformation not provided.

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?	No		
		Is antenna in operating condition?	Yes		
		Is antenna located on or in close proximity to an antenna farm?	Yes		
	Existing Antenna	Class	Full Power		
	Manufacturer and Type	Mounting	Top Mount		
		Antenna position in stack	Bottom		
		Polarization	Horizontal		
		Туре	Broadband Panel		
		Number of Stations Supported	5		
		Number of Panels	4		
		Design power capacity in use	67.0 %		
		Lower Limit	650.00 MHz		
		Upper Limit	662.00 MHz		
		Other Antenna Type	N/A		
		ERP: (Effective Radiated Power)	1000.0 kW		

Manufacturer	
Model	TAD- 32UDC-5 /80-MRST
Year	2010

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?	Yes		
	New Antenna Manufacturer and Types	Class	Full Power		
		Mounting	Top Mount		
		Antenna position in stack	Bottom		
		Polarization	Elliptical		
		Туре	Other		
		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	Coaxial Slotted Array		
		ERP: (Effective Radiated Power)	1000.0 kW		
		Manufacturer			
			,		

Model	ATW26HS3 ETO-30H
Year	2018
Justification for New Antenna	The current primary and secondary antennas available to the Station cannot be re-tuned to the Station's repacked (new) channel.

Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
		Frequency	N/A
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	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

Primary
AntennaOther Antenna Cost Not ListedInformation not provided.

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

ransmissio	n Line Section	Question	Response
	Existing Transmission Line Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	To limit disruption to broadcast signal in case of loss of main antenna
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is this transmission currently shared with any other stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission	Manufacturer	
	Line Manufacturer and Type	Туре	Rigid
		Diameter	8 3/16 inches
		Other Diameter	N/A
		Segment Length	Broadband
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1320 feet per run

Auxiliary	New Transmission Line				
Transmissio	n Line Section	Question	Response		
	New Transmission Line Costs	Use	Auxiliary (Backup)		
		Description of Use	New transmission line necessary to continue to support backup operations. See Exhibit 1.		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	No		
		Туре	Rigid		
		Diameter	8 3/16 inches		
		Other Diameter	N/A		
		Segment Length	Broadband		
		Other Segment Length	N/A		
		Number of parallel runs	1		
		Length	1320 feet per run		
		Justification for New Transmission Line	See Exhibit 1.		

Other Transmission Line Expenses Not Listed Auxiliary Transmission to provided.

Fransmissio	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	Rigid
		Diameter	8 3/16 inches
		Other Diameter	N/A
		Segment Length	Broadband
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1475 feet per run

Primary Existing Transmission Line

Primary Transmissio	New Transmission Line		
	n Linen	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
		Туре	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	1475 feet per run
		Justification for New Transmission Line	See Exhibit 1.

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

Auxiliary	Add Tower				
Tower	Section	Question	Response		
	Existing Tower Description	Type of change	Modify Existing		
		Tower Use	Auxiliary (Backup)		
		Description of Use	Tower is used for established backup antenna		
		Ownership	Leased		
		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		
	Registration	ASR Number	1023882		
	Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	45° 03' 44.0" N-		
		Longitude (NAD83)	093° 08' 22.0" W-		
		Overall Structure Height	1436.01 feet		

Support Structure Height	1304.12 fee
Ground Elevation Above Mean Sea Level (AMSL)	997.04 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Telefarm, Inc.
Date Constructed	01/01/2000

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
09629	WCCO-TV	DTV
28010	KSTP-TV	DTV
42949	KNOW-FM	FM
36395	WUCW	DTV
23079	KARE	DTV

Auxiliary Tower Modification Costs

Tower

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:	Minor Reinforcements needed

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

Auxiliary Other Tower Expenses Not Listed

AuxiliaryOther Tower ExpensTowerInformation not provided.

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Is this tower consider Complex?		
		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	1023883	
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	45° 03' 45.0" N-	
	1983))	Longitude (NAD83)	093° 08' 22.0" W-	
		Overall Structure Height	1437.97 feet	
		Support Structure Height	1288.04 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	1000.32 feet	
		Structure Type	TOWER - Free Standing or Guyed Structure	

Tower Owner	Telefarm, Inc.
Date Constructed	01/01/2001

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
9629	WCCO-TV	DTV
35642	KSTP-FM	FM
9641	KMNB	FM
60641	KTMY	FM

Primary Tower Modification Costs

Tower

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:	Minor Reinforcements needed

Primary Tower Rigging Costs

Tower

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

Other Tower Expenses Not Listed Primary Tower

Information not provided.

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	864
		Explanation	Outside project management services are likely necessary to coordinate work, delivery, testing, and other issues with other users of antenna farm - please see Exhibit 1.
	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	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	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	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Other Professional Services Expenses Not Listed

Professional	Services Costs	Description
	Comprehensive coverage verification, Auxiliary Antenna	Conduct field study coverage verification for backup antenna
	RF exposure measurements, Auxiliary Antenna	Conduct RF exposure measurements for backup antenna operations
	Outside Legal Advice and Analysis	Attorney fees and FCC transition requirement

Other	Section	Question	Response
Expenses	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	Yes
		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?	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 Not Listed

Other Expenses	Other Expenses Not Listed				
	Name	Description			
	Transmitter Control	Remote control needed to comply with FCC requirements for main studio control.			
	Internal Staff Work	Director of Engineering, RF supervisor and transmitter engineer are expected to devote more than 900 hours on this channel transition. See Exhibit 1.			

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 THU9evo-48	\$3,701,306.00	\$2,249,112.47		\$382,901.70	
Other Electrical Service: See attached quote from Master Electrical Company, Inc.	\$229,306.00	\$229,306.00	Please see attached quote, which is consistent with current plan to construct by current deadline - See Master Electrical Company, Inc. (Primary) Transmitter Quote.	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$1,636,904.77	N/A	\$382,901.70	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$382,901.70	***System Notice: Estimate adjusted and locked because line has been superseded. ***See Exhibit 1, August 2017 Supplement, and additional supporting documentation. Amount includes appropriate state and local sales tax.	\$0.00	N/A
Auxiliary Transmitter UAXTE- 12R44	\$476,500.00	\$389,895.57		\$0.00	
UHF inside RF system	\$140,000.00	\$140,000.00	See Exhibit 1.	N/A	N/A
UHF - Air Cooled Solid State Transmitter 10 - 12 kW	\$336,500.00	\$249,895.57	Potential costs include those noted on price quote, state sales tax, and other currently projected costs. See Exhibit 1.	N/A	N/A
Sub-total	\$4,177,806.00	\$2,639,008.04	N/A	\$382,901.70	N/A
Total for	\$8,957,651.32	\$6,461,635.25	N/A	\$1,359,352.30	N/A

Actual Information	
Description	File Name

Other Electrical Service: See attached quote from Master Electrical Company, Inc.	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description: Amount:	Work performed on primary transmitter. \$382,901.70
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	Work performed on primary
	Amount:	transmitter. \$382,901.70
UHF inside RF system	Information not provided.	
UHF - Air Cooled Solid State Transmitter 10 - 12 kW	Information not provided.	

Antennas

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna ATW26HS3- ETO-30H	\$1,222,861.75	\$882,663.50		\$655,754.25	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	\$438,131.75	\$438,131.75	N/A	\$217,622.50	N/A

UHF - High Power Top Mount (200- 1000 kW), Four Station broadband panel antenna, horizontally polarized	\$778,000.00	\$438,131.75	***System Notice: Estimate adjusted and locked because line has been superseded. ***See Exhibit 1, as the bottom position in a top- mount, stacked antenna, which results in additional cost, and including sales tax.	\$438,131.75	N/A
Auxiliary Antenna TFU-24JSC- RT140	\$208,592.20	\$203,118.81		\$0.00	
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, horizontally polarized	\$158,202.20	\$158,202.20	See Exhibit 1 (and quote with sales tax).	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$11,766.61	See Exhibit 1, including sales tax.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$21,750.00	See Exhibit 1	N/A	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$1,431,453.95	\$1,085,782.31	N/A	\$655,754.25	N/A
Total for all systems	\$8,957,651.32	\$6,461,635.25	N/A	\$1,359,352.30	N/A

Actual Information Description	File Name
Sweep test of existing antenna	Information not provided.

UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	Component Description: Amount:	Work performed on primary antenna and the mounting modifications for the primary antenna. \$217,622.50
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, horizontally polarized	Component Description:	Work performed on the primary antenna and the mounting modifications for the primary antenna.
	Amount: Component Description: Amount:	\$217,622.50 Portion of invoice relevant to work performed on primary antenna. \$220,509.25
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, horizontally polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	

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

Transmission Line

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$1,100,350.00	\$661,572.01		\$220,509.25	
Rigid Transmission Line - copper, 8 3 /16"	\$511,825.00	\$441,062.76	This correction reflects the ultimate use of 19.5 foot segment length for the transmission line, for which the Commission's catalog (or default) value of \$498,550 still far exceeds the estimated overall cost for the transmission line here.	N/A	N/A
Rigid Transmission Line - copper, 8 3 /16" broadband	\$588,525.00	\$220,509.25	***System Notice: Estimate adjusted and locked because line has been superseded.	\$220,509.25	N/A
Auxiliary Transmission Line	\$526,680.00	\$362,813.52		\$0.00	

Rigid Transmission Line - copper, 8 3 /16" broadband	\$526,680.00	\$362,813.52	N/A	N/A	N/A
Sub-total	\$1,627,030.00	\$1,024,385.53	N/A	\$220,509.25	N/A
Total for all systems	\$8,957,651.32	\$6,461,635.25	N/A	\$1,359,352.30	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 8 3/16"	Information not provided.	
Rigid Transmission Line - copper, 8 3/16" broadband	Component Description: Amount:	Portion of invoice relevant to work performed on primary transmission line. \$220,509.25
Rigid Transmission Line - copper, 8 3/16" broadband	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$591,600.00	\$562,000.00		\$9,000.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$9,000.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$0.00	N/A
Auxiliary Tower TOWER	\$381,100.00	\$362,000.00		\$9,000.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$9,000.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	N/A

Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Sub-total	\$972,700.00	\$924,000.00	N/A	\$18,000.00	N/A
Total for all systems	\$8,957,651.32	\$6,461,635.25	N/A	\$1,359,352.30	N/A

Actual Information Description	File Name	
Structural engineering tower load study for well documented tower	Component Description: Amount:	Malouf North Tower Study \$9,000.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Minor tower reinforcement /modifications	Information not provided.	
Structural engineering tower load study for well documented tower	Component Description: Amount:	Malouf South Tower Study \$9,000.00
Tall Tower (greater than 500')	Information not provided.	
Minor tower reinforcement /modifications	Information not provided.	

Outside Professional Services

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$387,706.00	\$431,209.00		\$76,813.99	
Outside Legal Advice and Analysis	\$8,859.00	\$8,859.00	See Exhibit 2 (May 2018)	\$8,797.00	See attached vendor quote and exhibit 2 for further explanation.
RF exposure measurements, Auxiliary Antenna	\$20,000.00	\$20,000.00	See Exhibit 1.	N/A	N/A
Comprehensive coverage verification, Auxiliary Antenna	\$80,000.00	\$80,000.00	See Exhibit 1.	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	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
Project management of the transition	\$136,512.00	\$129,600.00	See Exhibit 1	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$60,000.00	This new estimate reflects a total of all quotes to date for this work during the repacking period. (Currently, one quote covered until Aug 2017 and was attached previously to this form.) The other quote is provided hereto. See also Exhibit 2 (May 2018)	\$58,579.12	New attachments include vendor quote as requested by the reviewer. See Exhibit 2 for further explanation.

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,625.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	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	\$750.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A

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	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$4,062.87	N/A
Sub-total	\$387,706.00	\$431,209.00	N/A	\$76,813.99	N/A
Total for all systems	\$8,957,651.32	\$6,461,635.25	N/A	\$1,359,352.30	N/A

Actual Information Description	File Name	
Outside Legal Advice and Analysis	Component Description: Amount:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$715.50

Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$155.00
Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$2,703.00
Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$504.00

Component Description:	Portion of invoice relevant attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$1,009.00
Component Description: Amount:	Portion of invoice relevant to attorney fees and FCC transition requirement. \$1,473.00
Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$442.00
Component Description: Amount:	Portion of invoice relevant to attorney fees and FCC transition requirement. \$447.00
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Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$684.00
Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$159.00
Component Description:	Portion of invoice relevant to attorney fees and FCC transition requirement. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$238.50
Component Description: Amount:	Portion of invoice relevant to attorney fees and FCC transition requirement. \$267.00

Information not provided.	
Information not provided.	
Component Description:	Portion of invoice relevant to the license to cover fo digital auxiliary construction permit. \$62.00
Information not provided.	ψ02.00
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes cover letter and vendor quote. See Exhibit 2 for further
	Information not provided. Component Description: Amount: Information not provided.

Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$79.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. New attachment includes a vendor quote as requested by the reviewer. See Exhibit 2 for further explanation. \$5,439.62
Component Description:	Portion of invoice relevant to preparation of reimbursement form. New attachment includes a vendor quote as requested by the reviewer. See Exhibit 2 for further explanation. \$10,520.00

Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$2,023.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$318.00
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$1,948.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$283.00

Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$7,012.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$171.00
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$2,246.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$5,245.00

Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$318.00
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$6,627.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$5,522.50
Component Description:	Portion of invoice relevant to preparation of reimbursement form. Attachment includes a vendor quote. See exhibit 2 for further explanation. \$3,343.50

	Component Description:	Portion of invoice relevant to
		preparation of
		reimbursement
		form. Attachment
		includes a vendor
		quote. See exhibit
		2 for further
		explanation.
	Amount:	\$1,818.00
	Component Description:	Portion of invoice
		relevant to
		preparation of
		reimbursement
		form. Attachment
		includes a vendor
		quote. See exhibit
		2 for further
		explanation.
	Amount:	\$3,595.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

for new channel assignment and antenna development	Component Description: Amount:	Initial review and work on KSTC-TV repack planning. \$250.00
	Component Description:	Initial study of new antenna option for KSTC-TV; map;
	Amount:	pop counts; memo \$375.00
	Component Description:	Work performed or auxiliary antenna system design; earlier telcon.
	Amount:	\$500.00
	Component Description:	Prepared new application based on new antenna
	Amount:	specification. \$1,500.00
Prepare engineering section of FCC Form 2100		
(main), Construction Permit Application	Component Description:	Prepare Form 2100; exhibits; modification for
		increase in antenna height; new antenna.
	Amount:	\$2,000.00

Component Description: Amount:	Portion of invoice for work performed on preparation of exhibits and engineering section of auxiliary construction permit application. \$750.00
Information not provided.	
Information not provided.	
Component Description:	Portion of invoice relevant to preparation of construction permit application. New attachment includes cover letter as requested by reviewer. See Exhibit 2 for further explanation. \$3,573.37
Component Description: Amount:	Portion of invoice relevant to preparation of construction permit application. \$489.50
	Amount: Information not provided. Information not provided. Component Description: Amount: Component Description:

Other Expenses

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$158,320.37	\$157,760.37		\$5,373.11	
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	\$0.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$20,500.00	\$20,500.00	See Exhibit 1.	N/A	N/A

Equipment Delivery and Handling Charges	\$72,162.00	\$72,162.00	Delivery of two transmitters, two antennae, and two transmission lines has not been included in above cost estimates. See Exhibit 1 and August 2017 Supplement (and other supporting exhibits from GatesAir and Dielectric referenced therein).	\$382.50	N/A
Equipment Storage	\$3,357.37	\$3,357.37	N/A	\$1,169.84	N/A
Develop and air announcement of upcoming channel change	\$4,100.00	\$4,100.00	See Exhibit 1.	N/A	N/A
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	See Exhibit 1.	N/A	N/A
Transmitter Control	\$4,580.00	\$4,580.00	See Exhibit 1 (and attached quote)	N/A	N/A

Internal Staff Work	\$40,736.00	\$40,736.00	See Exhibit 1 and August 2017 Supplement.	\$3,820.77	N/A
Sub-total	\$158,320.37	\$157,760.37	N/A	\$5,373.11	N/A
Total for all systems	\$8,957,651.32	\$6,461,635.25	N/A	\$1,359,352.30	N/A

Actual Information Description	File Name	
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Component Description: Amount:	Application fee regarding license to cover for digital auxiliary construction permit application. \$325.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	

Equipment Delivery and Handling Charges	Component Description:	Shipping cost for Dielectric, 8-75 to Type-N test transition tuned to channel 30 to determine antenna viability for use on channel 30 as part of the repack. \$234.02
	Component Description: Amount:	Equipment Handling \$382.50
Equipment Storage		
	Component Description: Amount:	Equipment Storage \$584.92
	Component Description: Amount:	Equipment Storage \$584.92
Develop and air announcement of upcoming channel change	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Transmitter Control	Information not provided.	

Component Description: Amount:	Cannot delete cost component section. Please disregard. N/A
Component Description: Amount:	Including pay stubs from an entity that is commonly owned with the licensee of KSTC-TV, LLC. \$2,109.39
Component Description: Amount:	Including pay stubs from an entity that is commonly owned with the licensee of KSTC-TV, LLC. \$1,683.98
Component Description: Amount:	Partial invoice regarding repack project. \$27.40
	Amount: Component Description: Amount: Amount: Amount:

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$8,957,651.32	\$6,461,635.25	\$1,359,352.30

Reimbursem	entestiatus	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.	David A. Jones Vice President
	06/19/2019

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 au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	David A. Jones Vice President

Attachments