

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 65355 Service: DTV Call KTTZ-TV Channel: 25 (UHF)

ID: Sign:

File **0000026949**

Number:

FRN: **0030587018** Date **11/20**

Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
TEXAS TECH UNIVERSITY Applicant Doing Business As: TEXAS TECH UNIVERSITY	Ron Trice, Director of Engineering BOX 42161 LUBBOCK, TX 79409 United States	+1 (806) 742-2209	ron. trice@TTU. edu	Other

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Alisan Colleen Sweet KTTZ Business Manager KTTZ Texas Tech University Public Media	Alisan Sweet 3406 18th Street Box 42161 Lubbock, TX 79409	+1 (806) 834- 2398	alisan. sweet@ttu.edu
	United States		

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Purchase transmitter, antenna and transmission line. Current transmitter cannot be retuned to new channel (see attached). Modification to the tower for placement of new antenna.

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	CD3260P2- CF
	Year	2002
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19.2 kW
	Justification for New Transmitter	The Harris Sigma transmitter is not tunable to Channel 25 as per Harris (Gates Air) see attached. The existing mask filter is channel- specific and must be replaced for the new channel. Upgrade to 30kW Filter.

Primary Transmitter

Other Transmitter Costs

Question	Response
	Question

and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service?			
Transformer (480V) Power N/A Rigid Conduit and Wiring No Size N/A Length Other Electrical Service Description Electrician to connect new transmitter and power transformer to existing electrical panel. Run and cooling fan and cooling fan and cooling fan and existing panels. HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Transmitter Building Addition/Modification or Leasehold Improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A	Electrical Service	Service Entrance (3 phases 800A 208V)	No
Power N/A Rigid Conduit and Wiring No Size N/A Length N/A Other Electrical Service Yes Description Electrical connect new transmitter and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Switchgear (industrial 800 amp)	No
Rigid Conduit and Wiring Size N/A Length Other Electrical Service Pescription Electrician to connect new transmitter and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size Other Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Transformer (480V)	No
Size N/A Length N/A Other Electrical Service Yes Description Electrician to connect new transmitter and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Power	N/A
Length Other Electrical Service Description Electrician to connect new transmitter and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Rigid Conduit and Wiring	No
Other Electrical Service Description Electrician to connect new transmitter and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service? Type N/A Size N/A Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Size	N/A
Description Electrician to connect new transmitter and power transforme to existing electrical panel. Run and connect Rf filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service? 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? Size N/A Channel 14 Costs Electrician to connect Rf filter and panel connect Refilter and panel. No		Length	N/A
to connect new transmitter and power transforme to existing electrical panel. Run and connect RF filter fan and cooling fan and pumps to existing panels. HVAC Service Does the replacement transmitter require HVAC Service?		Other Electrical Service	Yes
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? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Description	to connect new transmitter and power transformer to existing electrical panel. Run and connect RF filter fan and cooling fan and pumps to existing
Size N/A Other Size N/A Transmitter Building Does the Transmitter Building require an addition, modification, other leashold improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A	HVAC Service		No
Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Туре	N/A
Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Size	N/A
Addition/Modification or Leasehold Improvement addition, modification, other leashold improvement? Size N/A Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Other Size	N/A
Channel 14 Costs	Addition/Modification or	addition, modification, other leashold	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 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

Name	Description
Simple Site Survey	Propose new equipment layout, provide 2D floor plan for proposed facility with electrical and building modifications

Antennas

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

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	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)	890.0 kW

Manufacturer	
Model	TFU- 22DSC-R C170
Year	2003

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	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)	290.0 kW
	Manufacturer	

Model	TFU-18JTH /VP-R 4C170
Year	2018
Justification for New Antenna	Existing antenna is a Channel 39 signal channel antenna and cannot be re- tuned. The antenna is side mounted. The new antenna needs to be top mounted due to no other space on the tower.

Other Antenna Costs

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	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Name	Description
Bury Mount Adapter	The adapter is needed to mount the new antenna to the tower. This a custom built adapter designed and built buy Dielectric.

Transmission ^{Seffien}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

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	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	522 feet per run

New Transmission Line

Primary
Transmissio

on 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
	Туре	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	700 feet per
	Justification for New Transmission Line	The existing line is 20' sections which is Prohibited on Channel 25. We need to use 19 1/2' or 19 3/4' transmission line sections.

Primary
Other Transmission Line Expenses Not Listed
Transmission Line tion 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?	
	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	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1047750
Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	33° 34' 55.0 N-
1983))	Longitude (NAD83)	101° 53' 27.0" W-
	Overall Structure Height	817.58 feet
	Support Structure Height	644.02 feet
	Ground Elevation Above Mean Sea Level (AMSL)	3225.03 fee

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	TEXAS TECH UNIVERSITY
Date Constructed	05/07/1982

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
65354	KTTZ-FM	FM
65352	KTXT-FM	FM

Other Types of Users

Users
TTU BMC
S. Plains EMS

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

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	300
	Explanation	The station has multiple transmitter sites (1 TV with 2 Radio and 1 Radio 180 miles away) and 2 Studio Buildings. They are operating with minimal staff. The station does not have personnel available for managing this project and doing their daily duties.
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	Yes
Quantity	1
Do you have Distributed Transmission System engineering services?	N/A
Critical Facility	N/A
Terrain-Shielded Facility	N/A
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	Yes
Quantity	1
NEPA Section 106 environmental review	v No
Environmental Assessment	No
ASR Modification	Yes
FAA Consultation (including preparation FAA Form 7460)	of No
Negotiation of Lease and other Matter for Shared Locations	or No
Prepare or Review FCC Form 399 for Reimbursement	Yes
Address transition timing and coordination issues w/ other stations and wireless providers	on No

Attorney and Other Outside Consulting

Services

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
Professional Services Expenses Not Listed
Professional Services Costsided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	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
Geotechnical Services	Engineering Analysis of soil at the base of the tower and anchor points. Analysis requested by Tower Engineering Company

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-30	\$704,176.80	\$522,322.53		\$484,283.53	
Simple Site Survey	\$5,176.80	\$5,176.80	N/A	\$5,176.80	N/A
Other Electrical Service: Electrician to connect new transmitter and power transformer to existing electrical panel. Run and connect RF filter fan and cooling fan and pumps to existing panels.	\$15,000.00	\$15,000.00	N/A	\$14,190.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$502,145.73	N/A	\$464,916.73	N/A
Sub-total	\$704,176.80	\$522,322.53	N/A	\$484,283.53	N/A
Total for all systems	\$2,334,513.80	\$1,988,451.53	N/A	\$873,035.63	N/A

Components

Description	File Name	
Simple Site Survey		
	Component Description:	Basic site survey invoice from GatesAir, Inc. for KTTZ, Texas Tech University, Lubbock, TX
	Amount:	\$5,176.80
Other Electrical Service: Electrician to connect new transmitter and power transformer to existing electrical panel. Run and connect RF filter fan and cooling fan and pumps to existing panels.	Component Description: Amount:	Electrician to connect new transmitter/power transformer to existing electrical panel. Run /connect RF filter fan and cooling fan/pumps to existing panels. \$14,190.00

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW

Component Description: Transmitter

installation hardware and equipment

Amount: \$78,450.70

Component Description: Transmitter

(ULXTE-30) and its components

Amount: \$322,529.33

Component Description: Transmitter filter,

Motorized Switch,

Test Load &

inside RF System

Amount: \$63,936.70

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-18JTH /VP-R 4C170	\$403,352.00	\$305,288.00		\$274,759.20	
Bury Mount Adapter	\$97,552.00	\$97,552.00	N/A	\$87,796.80	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$192,744.00	N/A	\$173,469.60	The new Dielectric antenna matches the directional pattern and horizontal polarization of the existing antenna. KTTZ TV has included the addition of vertical polarization to the new antenna at the station's expense. Please see attached variance document.

Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$8,592.00	N/A	\$7,732.80	N/A
Sub-total	\$403,352.00	\$305,288.00	N/A	\$274,759.20	N/A
Total for all systems	\$2,334,513.80	\$1,988,451.53	N/A	\$873,035.63	N/A

Components

Actual Information Description	File Name	
Bury Mount Adapter		
	Component Description: Amount:	bury mounting adapter - KTTZ bird cage, inv. 45% of total per contract \$43,898.40
	Component Description:	First installment of 45% of Bury Mount Adapter with bird cage is due.
	Amount:	\$43,898.40

UHF - High Power Top Mount (200-1000 kW), One **Component Description:** ANT TFU-18ETT station antenna, elliptically /VP-R 4C170 or circularly polarized KTTZ D25 antenna invoice 45% of total, per contract. \$86,734.80 Amount: **Component Description:** First installment of 45% of High Power Side Mount Antenna (ANT TFU-18JTH /VP-R 4C170 KTTZ D-25) is due. Amount: \$86,734.80 Sweep test of existing antenna **Component Description:** First installment of 45% of Repack

Amount:

Amount:

Component Description:

Sweep is due.

repack sweep test; inv. 45% of total per contract

\$2,880.00

\$2,880.00

Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)

Component Description: First installment

of 45% of Elbow Complex KTTZ Single channel (at antenna input for 4-1/13" 50 ohm) is due.

Amount: \$3,866.40

Component Description: elbow complex

KTTZ single channel at

antenna input 4-1 /13" 50 ohm; inv. 45% of total per

contract.

Amount: \$3,866.40

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	\$99,400.00	\$86,691.00		\$78,021.90	
Rigid Transmission Line - copper, 4 1 /16"	\$99,400.00	\$86,691.00	N/A	\$78,021.90	N/A
Sub-total	\$99,400.00	\$86,691.00	N/A	\$78,021.90	N/A
Total for all systems	\$2,334,513.80	\$1,988,451.53	N/A	\$873,035.63	N/A

Components

Actual Information Description	File Name	
Rigid Transmission Line - copper, 4 1/16"	Component Description:	First installment of
	Component Description.	45% of Rigid
		Transmission Line
		is due.
	Amount:	\$39,010.95
	Component Description:	rigid transmission
		line and T/L 4-50
		EIA for the line;
		inv. 45% of total
		per contract.
	Amount:	\$39,010.95

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
Primary Tower TOWER	\$868,300.00	\$825,000.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	Tower is located in a University parking lot. Access is limited and must be scheduled around school and school events. Extra safety precautions must be taken because of location.	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	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	N/A	N/A
Sub-total	\$868,300.00	\$825,000.00	N/A	\$0.00	N/A

Total for all	\$2,334,513.80	\$1,988,451.53	N/A	\$873,035.63	N/A
systems					

Components

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	\$182,835.00	\$173,250.00		\$7,675.00	
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$0.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$475.00	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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$450.00	N/A

Total for all systems	\$2,334,513.80	\$1,988,451.53	N/A	\$873,035.63	N/A
Sub-total	\$182,835.00	\$173,250.00	N/A	\$7,675.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,250.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,500.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$47,400.00	\$45,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A

Components

Actual Information	
Description	File Name

RF Exposure		
Measurements	Component Description:	RF Consulting Engineering including engineering performance study for new channel assignment and antenna
	Amount:	development \$4,500.00
		T1:
	Component Description: Amount:	This entry made on incorrect component made on RF Exposure Measurements; will be added to "perform engineering study for new channel assignment and antenna development. (\$4,500.00)
Comprehensive coverage verification via field study, if needed	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description:	prepare and file STA to operate KTTZ TV at reduced power until new channel
	Amount:	change over. \$475.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Review and completion of legal portion of KTTZ-TV repack modification application. \$450.00
Prepare request for Special Temporary Authorization	Information not provided.	
Project management of the transition	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description:	engineering study for new channel assignment and antenna development: simple system /single channel antenna/line sys and CH25 Interference &coverage area w/ a directional C-170 top mount antenna for first CP; Define TPO of new transmitter \$4,500.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	RF Consulting Engineering: Preparation of engineering section of FCC Form 2100, construction permit (CP) application.

Prepare engineering section of FCC Form 2100 (main), License to Cover Application 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 Cost Justification
Other Expenses	\$76,450.00	\$75,900.00		\$28,296.00	
Geotechnical Services	\$8,700.00	\$8,700.00	Tower Engineering Company in the process of preforming an Analysis on the Tower needed a Soil Analysis to determine if the Tower base and anchor points needed modification for the tower to meet the G code with the new antenna and transmission line.	\$8,700.00	N/A
MVPD Notification of Channel Change	\$1,200.00	\$1,200.00	N/A	\$1,138.00	N/A
Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	N/A	N/A	N/A

Total for all	\$2,334,513.80	\$1,988,451.53	N/A	\$873,035.63	N/A
Sub-total	\$76,450.00	\$75,900.00	N/A	\$28,296.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$27,000.00	\$27,000.00	Removal of CH39 Transmitter and associated equipment after channel shut off	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,258.00	N/A
Equipment Delivery and Handling Charges	\$18,000.00	\$18,000.00	Antenna, Bury Mount and line delivery.	\$16,200.00	N/A

Components

Actual Information Description	File Name	
Geotechnical Services		
	Component Description: Amount:	Geotechnical investigation, including field operations, laboratory investigation, engineering analysis, and report. \$8,700.00

MVPD Notification of Channel Change		AN (DD AL sign of
J	Component Description:	MVPD Notification Services: notification of cable and satellite
		MVPD Providers of new RF channel and transport stream
	Amount:	parameters on repack channel \$1,138.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:	freight, shipping, and handling; inv.
	Amount:	45% of total per contract \$8,100.00
	Component Description:	First installment of 45% of Freight, Shipping and
	Amount:	Handling is due. \$8,100.00
DTV Medical Facility Notification		
Notification	Component Description:	DTV Notification Service - notification of medical facilities - transmitter
	Amount:	medical facility notification per proposal \$2,258.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,334,513.80	\$1,988,451.53	\$873,035.63

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

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 abovenamed applicant for the Authorization(s) specified above. Alisan C Sweet KTTZ Business Manager

11/20/2018

Attachments