

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	24514	Service: DTV	Call	KTFD-TV	Channel: 28 (UHF)
ID:			Sign:		
File 0000058233					
Number:					
FRN: 000	01529627	Date	02/18		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
ENTRAVISION HOLDINGS, LLC	Jeffery A. Liberman 5700 Wilshire Blvd. Los Angeles, CA 90036 United States	+1 (323) 900-6393	jliberman@entravision. com	Limited Liability Company

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
	Samuel Hariton Widelity	4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

Broadcaster	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
	Briefly describe transition plan	The plan is for KTFD is to replace the existing channel 26 system with a new channel 28 antenna, new 4-1/16 line and retune existing transmitters. KTFD will need to use an interim antenna and line on an interim tower white replacing the primary antenna.

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

Primary Add Transmitter Information

Transmitter	Section	Question	Response
	Existing Transmitter Description	Type of change	Retune Existing
		Use	Primary (Main)
		Ownership	Owned
		Owner	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	Gates Air

Model	ULXT-40AT
Year	2014
Туре	Solid State
Solid State Cooling	Liquid Cooled
Solid State Power capacity	19.5 kW

Primary Transmitter	Retuning Transmitter Costs				
	Section	Question	Response		
	New IOT Tubes	Number of Tubes (including accessories) needed	N/A		
	New Mask Filter	Power	Other		
		Other Power	25 kW		
	New Exciter	Is a new exciter needed?	No		

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	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

Primary Other Transmitter Cost Not Listed

Transmitter Information not provided.

Primary Existing Transmitter Information

Transmitter	Section	Question	Response
	Existing Transmitter Description	Type of change	Retune Existing
		Use	Primary (Main)
		Ownership	Owned
		Owner	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	Gates Air
		Model	ULXT-40AT
		Year	2014

Туре	Solid State
Solid State Cooling	Liquid Cooled
Solid State Power capacity	19.5 kW

Retuning Transmitter Costs Primary Transmitter

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	Other
	Other Power	25 kW
New Exciter	Is a new exciter needed?	No

Other Transmitter Costs Primary

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

Other Transmitter Cost Not Listed

PrimaryOther Transmitter CoTransmitterInformation not provided.

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

Primary	Existing Antenna Information				
Antenna	Section	Question	Response		
	Existing Antenna Description	Type of change	Purchase New		
		Antenna Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is the existing antenna shared with another station or stations?	No		
		Is the existing antenna directional?	Yes		
		Is antenna in operating condition?	Yes		
		Is antenna located on or in close proximity to an antenna farm?	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)	549.0 kW		
			-		

Manufacturer	
Model	ATW25H5- HSC1-26H
Year	2014

Primary	New Antenna Costs				
Antenna	Section	Question	Response		
	New Antenna Description	Use	Primary (Main)		
		Description of Use	N/A		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Ownership	Owned		
		Owner	N/A		
		Is antenna shared?	No		
		Is antenna directional?	Yes		
		Will antenna be located on or in close proximity to an antenna farm?	Yes		
	New Antenna Manufacturer and Types	Class	Full Power		
		Mounting	Side 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)	400.0 kW		
		Manufacturer			

Model	TFU-29JSC /VP-R C150
Year	2018
Justification for New Antenna	A new antenna is necessary because the existing antenna cannot be retuned to the new channel and is not capable of broadcastin on channel 28.

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
Elbow Complex		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?	Yes

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.

Interim	New Antenna Costs				
Antenna	Section	Question	Response		
	New Antenna Description	Use	Interim		
		Description of Use	N/A		
		Change Type	Purchase New		
		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 Manufacturer and Type	Class	Full Power		
		Mounting	Side 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)	55.4 kW		
		Manufacturer			
		Model	TLP-8M/VP- R		
		Year	2018		

Other Antenna Costs

Interim Antenna

Section	Question	Response
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 an antenna?	Yes
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

Interim Other Antenna Cost Not Listed

Antenna Information not provided.

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

Primary	Existing Transmission Line			
Transmissio	n Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and Type	Manufacturer		
		Туре	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	240 feet per run	

Primary	New Transmission Line			
Transmissio	n 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	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	240 feet per run	
		Justification for New Transmission Line	New transmission line is necessary because the new channel requires transmission line segments of a different length.	

Primary Other Transmission Line Expenses Not Listed

Transmission home tion not provided.

Interim	New Transmission Line			
Transmissio	Section	Question	Response	
	New Transmission Line Costs	Use	Interim	
		Description of Use	N/A	
		Change Type	Purchase New	
		Туре	Flexible Air	
		Diameter	1 5/8 inches	
		Segment Length	N/A	
		Other Segment Length		
		Number of parallel runs	1	
		Length	250 feet per run	
		Justification for New Transmission Line	Interim transmission line is necessary to allow the first retuned transmitter to power the interim antenna. Interim transmission linewill be mounted on a different, interim, tower.	

Interim Other Transmission Line Expenses Not Listed

Transmission hometion not provided.

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

Primary	Existing Tower

Primary 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?	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	Yes
		Is tower documented for structural analysis?	No
		Is tower compliant with Rev G?	Yes
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes
		ASR Number	1044149
	Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 43' 58.0" N-
		Longitude (NAD83)	105° 14' 10.0" W-
		Overall Structure Height	450.13 feet
		Support Structure Height	450.13 feet
		Ground Elevation Above Mean Sea Level (AMSL)	7278.78 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	KWGN, LLC
Date Constructed	01/01/1971

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
29739	KWBL	FM
59601	KALC	FM

Other Types of Users

Users

Two-Way paging

Tower Modification Costs Primary

Tower

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

Other Tower Expenses Not Listed

Primary Tower

Name	Description
Structural Analysis	Structural Analysis completed after tower mapping

Auxiliary	Add Tower				
Tower	Section	Question	Response		
	Existing Tower Description	Type of change	Modify Existing		
		Tower Use	Auxiliary (Backup)		
		Description of Use	Interim		
		Ownership	Leased		
		Is this tower consider Complex?	No		
		Is this tower currently shared with any other stations?	No		
		One or more FM, AM or TV radio broadcaster(s)	N/A		
		Others Types of Users	N/A		
		Is tower documented for structural analysis?	No		
		Is tower compliant with Rev G?	Unknown		
	Existing Tower Structure	Do you have a tower registration number?	Yes		
	Registration	ASR Number	1044150		
	Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 43' 57.9" N-		
		Longitude (NAD83)	105° 14' 08.9" W-		
		Overall Structure Height	197.83 feet		
		Support Structure Height	197.83 feet		
		Ground Elevation Above Mean Sea Level (AMSL)	7266.97 feet		
		Structure Type	TOWER - Free Standing or Guyed Structure		

Tower Owner	KWGN Inc., Debtor-In- Possession
Date Constructed	01/01/1952

Tower Modification Costs Auxiliary Tower

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

Tower Rigging Costs Auxiliary Tower

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

Other Tower Expenses Not Listed Auxiliary Tower

Name	Description
Structural Analysis	Structural Analysis completed after tower mapping
Remove Batwing antenna	KTFD will need to remove the existing Batwing antenna from the tower.

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	712
		Explanation	KTFD does not have sufficient resource capacity and expertise in house to handle all of the reimbursemen filing by the Construction Deadline of April 12, 2019. KTFD will hire an outside firm to ensure a timely and well managed transition.
	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
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	Yes
	Environmental Assessment	Yes
	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	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A

Outside	Other Professional Services Expenses Not Listed			
Professional	Services Costs Description			
	Attorney Channel 28	Attorney Fees associated with Securing access to Channel 28		
	Engineering Channel 28	Engineering Fees associated with Securing access to Channel 28		

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	Yes
		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 Not Listed

Expenses Information not provided.

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 ULXT-40AT	\$148,452.96	\$60,514.76		\$50,720.90	
UHF and VHF - minor banding issues	\$105,200.00	\$17,261.80	N/A	\$9,510.00	N/A
Other 25 kW mask filter	\$43,252.96	\$43,252.96	Estimated Cost Justification KTFD-110- 1st Primary Transmitter, 25 kW Mask Filter v0	\$41,210.90	N/A
Primary Transmitter ULXT-40AT	\$134,617.76	\$46,679.56		\$6,750.00	
UHF and VHF - minor banding issues	\$105,200.00	\$17,261.80	N/A	\$6,750.00	N/A
Other 25 kW mask filter	\$29,417.76	\$29,417.76	N/A	\$0.00	N/A
Sub-total	\$283,070.72	\$107,194.32	N/A	\$57,470.90	N/A
Total for all systems	\$2,564,871.72	\$2,943,740.80	N/A	\$639,406.70	N/A

Components

Actual Information Description	File Name	
UHF and VHF - minor banding issues	Component Description:	KTFD-110-1st Primary Transmitter - Retune Existing Transmitter, Minor Banding Issues (Fabricate Tuning Section/Network Analyzer)
	Amount:	\$2,760.00
	Component Description:	Engineering Field Services by Chuck Britt & Associates, Inc to do retune on KTFD system changing from channel 26 to channel 28 \$6,750.00
Other 25 kW mask filter		
	Component Description: Amount:	Mask Filter, Line Kit \$41,210.90
	Component Description:	For preliminary work to change filters at KTFD in
	Amount:	Denver. \$2,042.05

UHF and VHF - minor banding issues	Component Description.	KTED 120 2nd
	Component Description:	KTFD-120-2nd
		Primary
		Transmitter -
		Retune Existing
		Transmitter, Minor
		Banding Issues
	Amount:	\$6,750.00
Other 25 kW mask filter		
	Component Description:	KTFD-120-2nd
		Primary
		Transmitter, 25
		kW Mask Filter
	Amount:	\$2,042.05

Antennas

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TLP-8M /VP-R	\$132,980.00	\$35,076.24		\$4,150.57	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$4,053.57	per Estimated Cost Justification KTFD-110- 1st Primary Transmitter, 25 kW Mask Filter v0 see also KTFD-280- Interim Antenna - Side Mount Brackets for High Power Antenna Budget Increase Justification v0	\$2,350.57	N/A
Sweep test of existing antenna	\$6,730.00	\$10,000.00	See attached Chuck Britt Quote	\$1,800.00	N/A

UHF -	\$103,100.00	\$21,022.67	Please see	\$0.00	N/A
Lower			attached		
Power			Dielectric		
Side			quote		
Mount,			513422JKT		
One			Rev2, see		
Station			Justifying		
antenna.			Invoice		
medium			Dielectric		
power (50-			321012		
200 kW),			shipping		
elliptically					
or					
circularly					
polarized					
Primary	\$256,880.00	\$232,171.51		\$180,621.73	
Antenna					
Antenna TFU-29JSC					
TFU-29JSC	\$23,150.00	\$27,364.51	see	\$25,245.58	N/A
TFU-29JSC /VP-R C150	\$23,150.00	\$27,364.51	see Estimated	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side	\$23,150.00	\$27,364.51		\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount	\$23,150.00	\$27,364.51	Estimated	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets	\$23,150.00	\$27,364.51	Estimated Cost	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high	\$23,150.00	\$27,364.51	Estimated Cost Justification	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power	\$23,150.00	\$27,364.51	Estimated Cost Justification KTFD-210-	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas	\$23,150.00	\$27,364.51	Estimated Cost Justification KTFD-210- Primary	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas (if not	\$23,150.00	\$27,364.51	Estimated Cost Justification KTFD-210- Primary Antenna -	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas (if not included	\$23,150.00	\$27,364.51	Estimated Cost Justification KTFD-210- Primary Antenna - Side Mount	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas (if not included in antenna	\$23,150.00	\$27,364.51	Estimated Cost Justification KTFD-210- Primary Antenna - Side Mount Brackets for	\$25,245.58	N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas (if not included in antenna base cost)			Estimated Cost Justification KTFD-210- Primary Antenna - Side Mount Brackets for High Power Antenna v0	\$25,245.58 N/A	N/A N/A
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas (if not included in antenna	\$23,150.00	\$27,364.51	Estimated Cost Justification KTFD-210- Primary Antenna - Side Mount Brackets for High Power		
TFU-29JSC /VP-R C150 Side mount brackets for high power antennas (if not included in antenna base cost) Sweep			Estimated Cost Justification KTFD-210- Primary Antenna - Side Mount Brackets for High Power Antenna v0		

UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$194,807.00	N/A	\$155,376.15	N/A
Sub-total	\$389,860.00	\$267,247.75	N/A	\$184,772.30	N/A
Total for all systems	\$2,564,871.72	\$2,943,740.80	N/A	\$639,406.70	N/A

Components

Actual Information Description	File Name	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:	KTFD-280-Interim Antenna - Side Mount Brackets for High Power Antenna
	Amount:	\$2,350.57
	Component Description: Amount:	KTFD-280-Interim Antenna - Side Mount Brackets for High Power Antenna \$1,703.00
	Anount.	ψ1,703.00

Sweep test of existing antenna	Component Description: Amount:	KTFD-280-Interim Antenna - Sweep Test \$1,800.00
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	Component Description:	UHF Low-Medium Power Side Mount, VPOL Components, Flexible transmission line, Standard mounts for antenna, Freight, etc. \$21,022.67

Side mount brackets for high power antennas (if not		
included in antenna base	Component Description:	KTFD-210-Prima
cost)		Antenna - Side
		Mount Brackets
		High Power
	Amount:	Antenna
	Amount:	\$9,787.50
	Component Description:	KTFD-210-Prima
		Antenna - Side
		Mount Brackets
		High Power
		Antenna
	Amount:	\$41.32
	Component Description:	KTFD-210-Prima
		Antenna - Side
		Mount Brackets
		High Power
		Antenna
	Amount:	\$14.75
	Component Description:	Remove and
		replace existing
		antenna,
		Additional charge
		for tuning filter,
		fabricate 4 cut
		pieces, network
		analyzer and
		antenna mountin
		brackets
	Amount:	\$5,614.51
	Component Description:	Side Mount
	Amount:	\$9,787.50
		÷=,. • ••
Sweep test of existing antenna	Information not provided.	

UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	Component Description: Amount:	ANTENNA - UHF SIDE MOUNT \$77,436.90
	Component Description: Amount:	Freight, shipping, and handling \$370.12
	Component Description: Amount:	Freight, shipping, and handling \$132.23
	Component Description: Amount:	Antenna- UHF Side Mount \$77,436.90

Transmission Line

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$8,250.00	\$7,463.50		\$0.00	
Flexible Air Transmission Line - dielectric, 1 5 /8"	\$8,250.00	\$7,463.50	See Justifying Invoice Dielectric 321012 shipping	\$0.00	N/A
Primary Transmission Line	\$34,080.00	\$47,278.23		\$43,886.62	
Rigid Transmission Line - copper, 4 1 /16"	\$34,080.00	\$47,278.23	see Estimated Cost Justification KTFD-310- Primary Transmission Line v0	\$43,886.62	N/A
Sub-total	\$42,330.00	\$54,741.73	N/A	\$43,886.62	N/A
Total for all systems	\$2,564,871.72	\$2,943,740.80	N/A	\$639,406.70	N/A

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 1 5/8"	Component Description: Amount:	KTFD-380-Interim Transmission Line \$7,463.50

Component Description: CONN STD ANCHOR 4-50 "QS Amount: \$292.50 **Component Description:** FREIGHT, SHIPPING, AND HANDLING LINE 33, UPS 2nd DAY AIR Amount: \$274.10 **Component Description:** Reducer; Other freight, shipping, and handling Amount: \$1,155.62 **Component Description: ELBOW 4-50** DIGIT 7 X 14 "QS Amount: \$1,358.00 **Component Description:** KTFD-310-Primary **Transmission Line** Amount: \$15,666.21 **Component Description:** CONN STD ANCHOR 4-50 "QS; ELBOW 4-50 EIA 6.00 X 12.00 CU REI; FREIGHT, SHIPPING, AND HANDLING Amount: \$1,527.74 **Component Description:** KTFD-310-Primary **Transmission Line** Amount: \$23.63

Component Description: Amount:	KTFD-310-Primar Transmission Line \$66.14
Component Description:	KTFD-310-Primar
	Transmission Line
Amount:	\$7,856.47
Component Description:	New Transmissior
	Line

Tower Equipment and Rigging Costs

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Auxiliary Tower TOWER	\$349,485.00	\$335,985.00		\$19,500.00	
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
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Structural Analysis	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Remove Batwing antenna	\$68,985.00	\$68,985.00	N/A	\$19,500.00	N/A
Primary Tower TOWER	\$1,174,500.00	\$1,863,257.00		\$201,230.16	
Structural Analysis	\$12,000.00	\$12,000.00	N/A	\$346.90	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,635,500.00	See attached proposal from H.C. Jeffries	N/A	N/A

Tower	\$26,300.00	\$25,000.00	N/A	\$10,126.26	N/A
mapping for					
an undocumented					
/poorly					
documented					
tower and					
preparation of					
documentation					
necessary for					
tower load					
study					
Short Tower	\$84,200.00	\$190,757.00	Estimated	\$190,757.00	N/A
(less than 500')			Cost		
			Justification KTFD-410-		
			Existing		
			Primary		
			Tower -		
			Short		
			Tower -		
			Tower		
			Rigging		
			and		
			Equipment		
			v0		
Sub-total	\$1,523,985.00	\$2,199,242.00	N/A	\$220,730.16	N/A
Total for all systems	\$2,564,871.72	\$2,943,740.80	N/A	\$639,406.70	N/A

Actual Information Description	File Name
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.
Minor tower reinforcement /modifications	Information not provided.
Short Tower (less than 500')	Information not provided.

Structural Analysis	Information not provided.	
Remove Batwing antenna		
	Component Description:	Returned to the
		site and removed
		the interim
		antenna and line.
	Amount:	\$19,500.00
Structural Analysis		
	Component Description:	Structural
		Analysis, Existing
		Primary Tower
	Amount:	\$346.90
Serious tower reinforcement /modifications	Information not provided.	
mouncations		
Tower mapping for an		
undocumented/poorly	Component Description:	Tower Mapping,
documented tower and		Existing Primary
preparation of		Tower
documentation necessary for tower load study	Amount:	\$10,126.26
Short Tower (less than 500')		
	Component Description:	KTFD-410-
		Existing Primary
		Tower - Short
		Tower - Tower
		Rigging and
		Equipment
	Amount:	\$150,900.00
	Component Description:	Installation of
		Interim Antenna.

Outside Professional Services

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$215,296.00	\$205,550.00		\$115,597.20	
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Project management of the transition	\$112,496.00	\$106,800.00	N/A	\$87,034.70	N/A
Engineering Channel 28	\$15,000.00	\$15,000.00	N/A	\$13,250.00	N/A
Attorney Channel 28	\$15,000.00	\$15,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$8,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$6,562.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$215,296.00	\$205,550.00	N/A	\$115,597.20	N/A
Total for all systems	\$2,564,871.72	\$2,943,740.80	N/A	\$639,406.70	N/A

Actual Information Description	File Name
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.
NEPA Section 106 environmental review, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.		
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.		
Prepare request for Special Temporary Authorization	Information not provided.		
Project management of the transition	Component Description: Amount:	Project Management \$148.20	
	Component Description: Amount:	Project Management \$2,068.70	
	Component Description: Amount:	Project Management \$3,296.60	
	Component Description: Amount:	Project Management \$4,250.45	
	Component Description: Amount:	Project Management \$3,864.00	
	Component Description: Amount:	Project Management \$2,425.15	
	Component Description: Amount:	Project Management \$4,089.30	

Component Description: Amount:	Project Management \$3,081.25
Component Description: Amount:	Project Management \$4,280.40
Component Description: Amount:	Project Management \$2,064.35
Component Description: Amount:	Project Management \$6,015.35
Component Description: Amount:	Project Management \$2,575.75
Component Description: Amount:	Project Management \$2,095.35
Component Description: Amount:	Project Management \$3,164.40
Component Description: Amount:	Project Management \$1,490.65
Component Description: Amount:	Project Management \$4,004.35

Component Description: Amount:	Project Management \$3,040.45
Component Description: Amount:	Project Management \$3,813.25
Component Description: Amount:	Project Management \$971.95
Component Description: Amount:	Project Management \$2,065.50
Component Description: Amount:	Project Management \$1,952.35
Component Description: Amount:	Project management \$3,615.40
Component Description: Amount:	Project Management \$3,003.80
Component Description: Amount:	Project Management \$1,675.35
Component Description: Amount:	Project Management \$1,734.85

Component Description: Amount:	Project Management \$1,104.60
Component Description: Amount:	Project Management \$2,723.25
Component Description: Amount:	Project Management \$4,148.15
Component Description: Amount:	Project Management \$1,764.20
Component Description: Amount:	Project Management \$1,680.05
Component Description: Amount:	Project Management \$778.60
Component Description: Amount:	Project Management \$2,439.90
Component Description: Amount:	Project Management \$1,608.80

Engineering Channel 28		
	Component Description:	Prepare the
		technical portion
		of From 2100 to
		change from
		channel 14 to
		channel 28
	Amount:	\$5,000.00
	Component Description:	Study co-location
		with KTFD-DT as
		suggested by FCC
	Amount:	\$1,875.00
	Component Description:	Bronara tha
	Component Description:	Prepare the technical portion
		of From 2100 to
		change from
		channel 14 to
		channel 28
	Amount:	\$3,250.00
	Component Description:	Prepare the
	component Description.	technical portion
		of From 2100 to
		change from
		channel 14 to
		channel 28
	Amount:	\$2,000.00
	Component Description:	Prepare the
		technical portion
		of From 2100 to
		change from
		channel 14 to
		channel 28
	Amount:	\$1,125.00
	Information not provided.	

RF Exposure Measurements		
	Component Description:	Engineering Field Services by Chuch Britt & Associates
	•	
	Amount:	\$8,500.00
Prepare engineering section of FCC Form 2100 (main),		
License to Cover Application	Component Description: Amount:	License applicatio \$250.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment		
and antenna development	Component Description:	Engineering Study for New Channel
	Amount:	Assignment \$1,375.00
	Component Description:	Engineering Study for New Channel
	Amount:	Assignment \$4,125.00
	Component Description:	Engineering Study for New Channel
	Amount:	Assignment \$1,062.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

Other Expenses

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$110,330.00	\$109,765.00		\$16,949.52	
Equipment Storage	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	\$2,500.00	\$2,500.00	N/A	N/A	N/A
Local Zoning	\$5,000.00	\$5,000.00	N/A	\$0.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$750.00	\$750.00	N/A	\$0.00	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$15,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$16,949.52	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$110,330.00	\$109,765.00	N/A	\$16,949.52	N/A
Total for all systems	\$2,564,871.72	\$2,943,740.80	N/A	\$639,406.70	N/A

Actual Information Description	File Name
Equipment Storage	Information not provided.
Non-zoning permits	Information not provided.
Local Zoning	Information not provided.
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	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.

Equipment Delivery and		
Handling Charges	Component Description:	FREIGHT,
		SHIPPING, AND
		HANDLING PAF
		VAN DELIVERY
	Amount:	\$3,847.50
	Component Description:	FREIGHT,
		SHIPPING, AND
		HANDLING
		CHAPMAN 58'
		STRETCH
		TRAILER
		DELIVERY
	Amount:	\$13,102.02
Disposal Costs (for	Information not provided.	
equipment and other waste,		
net of any salvage value)		

Cost	Grand Total				
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost	
	Total for all systems	\$2,564,871.72	\$2,943,740.80	\$639,406.70	

Reimbursem	entestiatus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	Yes
	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.

 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.	Manuel Cavazos , III . EVP - Director of Technology 02/18/2020

Certification	Section	Question	Response
Certification	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. 	
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.	Manuel Cavazos , III . EVP - Director of Technology 02/18/2020

Certification	Section	Question	Response
Certification	Submission of Final Allocation or Accounting Information 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 and represents 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. The above-named entity acknowledges the submission of the information herein 	
		creates no obligation on the part of the government to pay any amount.	

3.	The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above- named entity, including any discounts, refunds, or rebates.	
4.	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.	
5.	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.	
6.	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.	
an aut namec	re, under penalty of perjury, that I am horized representative of the above- I applicant for the Authorization(s) ed above.	Manuel Cavazos , III . EVP - Director of Technology
		02/18/2020

Attachments