



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **37101** | Service: **DTV** | Call **KETD** | Channel: **15 (UHF)** |
ID: | Sign:
File **0000028706**
Number:
FRN: **0001529247** | Date **11/03**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Estrella Television License LLC	1845 EMPIRE AVENUE BURBANK, CA 91504 United States	+1 (818) 729-5300	chrisb@lbimedia.com	Limited Liability Company

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Samuel Hariton <i>Widely, Inc.</i>	4031 University Drive Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widely.com

Broadcaster Information and Transition Plan

Question	Response
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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	The plan is for KETD to replace the existing channel 45 system with a new channel 15 antenna, new 3-1/8" line and new transmitter. KETD will need to use an interim antenna and line in order to facilitate transition. See attached narrative statement.

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 and Type	Manufacturer	
	Model	UAX- 4000AT
	Year	2011
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	4.2 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-16
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10.8 kW
	Justification for New Transmitter	Retuning requires replacing the mask filter and extensive testing. This cannot be completed in an overnight maintenance and would result in a prolonged outage. An interim transmitter would be needed during this time to ensure continuous broadcast.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A

	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary
Transmitter

Other Transmitter Cost Not Listed

Name	Description
Internal Transmission Line	Internal Transmission Line
4 Port Switch	A 4 port switch is necessary to allow switching from the interim antenna to the new main antenna.

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	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
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	100.0 kW

Manufacturer	
Model	AL12M-45- PM
Year	2011

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?	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
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	200.0 kW
	Manufacturer	

Model	TFU-12DSB-F /VP
Year	2017
Justification for New Antenna	The existing antenna is not capable of supporting the new channel and will need to be replaced.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	3 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	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
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	100 feet per run

Primary
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	100 feet per run
	Justification for New Transmission Line	New primary antenna will be placed at the same height but on opposite side of tower from existing main. This tower is shared so the station's placement is constrained by the tower owner.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Dehydrator	R46345 Dehydrator 200C

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	Leased
	Is this tower consider Complex?	Terrain Constrained
	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1023484
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 40' 17.4" N-
	Longitude (NAD83)	105° 13' 08.0" W-
	Overall Structure Height	273.95 feet
	Support Structure Height	271.98 feet

	Ground Elevation Above Mean Sea Level (AMSL)	7685.60 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Bear Creek Development Corporation
	Date Constructed	11/08/1988

**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
35574	KQKS	FM
57219	KCEC	DTV
14040	KRMA-TV	DTV
26929	KQMT	FM

Other Types of Users

Users
West Metro Fire
Police
City Denver
Civil Air Ptrl
County Denver
Denver Water
Fire

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:	Minor Reinforcements needed

Primary
Tower

Tower Rigging Costs

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

Primary
Tower

Other Tower Expenses Not Listed

Name	Description
Structural Analysis	After the mapping is complete, a structural analysis will need to be run.

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	712
	Explanation	KETD does not have sufficient resource capacity and expertise in house to handle all of the Project Management related tasks necessary to facility on-time completion of the station's build by the Construction Deadline.
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	2

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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	2
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	Yes
	Number of Days	10

	Justification	Supervision and inspection of work completed
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Outside Professional Services Costs **Other Professional Services Expenses Not Listed**
If services are provided.

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	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	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?	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
Equipment Rental	Equipment Rental

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-16	\$771,177.68	\$280,537.29		\$161,263.67	
Internal Transmission Line	<i>\$3,954.95</i>	\$3,954.95	Dielectric Quote CLE 084 RevB	\$0.00	N/A
4 Port Switch	<i>\$16,000.00</i>	\$16,000.00	N/A	\$0.00	N/A
10 Ton system	\$38,900.00	\$37,000.00	N/A	N/A	N/A
Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	<i>\$40,000.00</i>	\$40,000.00	N/A	\$0.00	N/A

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$7,009.61	See Estimated Cost Justification KETD-110-1st Primary Transmitter - UHF - Liquid Cooled Solid State Transmitter 10.8 kW v0	\$7,009.61	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	\$1,981.33	N/A
UHF - Air Cooled Solid State Transmitter 3.6 kW	\$152,272.73	\$152,272.73	***System Notice: Estimate adjusted and locked because line has been superseded. ***Per GatesAir Quote Q-79399 + shipping and taxes	\$152,272.73	N/A
Sub-total	\$771,177.68	\$280,537.29	N/A	\$161,263.67	N/A
Total for all systems	\$2,051,593.66	\$1,341,670.63	N/A	\$414,194.96	N/A

Components

Actual Information	
Description	File Name
Internal Transmission Line	Information not provided.
4 Port Switch	Information not provided.
10 Ton system	Information not provided.

Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Component Description: Amount:	UAXTE-6R44 Transmitter \$7,009.61
Transformer 3 phase/480v - 150 KVA	Component Description: Amount:	KETD-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer \$1,981.33
UHF - Air Cooled Solid State Transmitter 3.6 kW	Component Description: Amount:	UAXTE-6R44 Transmitter \$152,272.73

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-12DSB-F/VP	\$266,220.00	\$75,338.69		\$53,014.24	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	\$2,815.85	N/A
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$7,053.69	Please see Estimated Cost Justification KETD Primary Antenna Elbow Complex and Dehydrator categories v0	\$7,053.69	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A

UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$39,885.00	Please see attached Dielectric Quote CLE084RevB and Invoice MAN01020. Cost of antenna plus \$5,670.00 for freight	\$36,744.70	N/A
Sub-total	\$266,220.00	\$75,338.69	N/A	\$53,014.24	N/A
Total for all systems	\$2,051,593.66	\$1,341,670.63	N/A	\$414,194.96	N/A

Components

Actual Information	
Description	File Name
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:
	KETD-210- Primary Antenna - Side Mount Brackets
	Amount:
	\$187.10
	Component Description:
	KETD-210- Primary Antenna - Side Mount Brackets
	Amount:
	\$2,628.75

<p>Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)</p>	<table> <tr> <td data-bbox="726 174 1029 208">Component Description:</td><td data-bbox="1169 174 1366 286">KETD-210- Primary Antenna - Elbow Complex</td></tr> <tr> <td data-bbox="726 297 834 331">Amount:</td><td data-bbox="1169 297 1286 331">\$6,585.00</td></tr> <tr> <td data-bbox="726 432 1029 465">Component Description:</td><td data-bbox="1169 432 1366 544">KETD-210- Primary Antenna - Elbow Complex</td></tr> <tr> <td data-bbox="726 555 834 589">Amount:</td><td data-bbox="1169 555 1265 589">\$468.69</td></tr> </table>	Component Description:	KETD-210- Primary Antenna - Elbow Complex	Amount:	\$6,585.00	Component Description:	KETD-210- Primary Antenna - Elbow Complex	Amount:	\$468.69
Component Description:	KETD-210- Primary Antenna - Elbow Complex								
Amount:	\$6,585.00								
Component Description:	KETD-210- Primary Antenna - Elbow Complex								
Amount:	\$468.69								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="726 723 1029 757">Component Description:</td><td data-bbox="1169 723 1366 835">KETD-210- Primary Antenna - Sweep Test</td></tr> <tr> <td data-bbox="726 846 834 880">Amount:</td><td data-bbox="1169 846 1286 880">\$6,400.00</td></tr> </table>	Component Description:	KETD-210- Primary Antenna - Sweep Test	Amount:	\$6,400.00				
Component Description:	KETD-210- Primary Antenna - Sweep Test								
Amount:	\$6,400.00								
<p>UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="726 1014 1029 1093">Component Description: Amount:</td><td data-bbox="1169 1014 1334 1093">CO Sales Tax \$447.93</td></tr> <tr> <td data-bbox="726 1193 1029 1350">Component Description: Amount:</td><td data-bbox="1169 1193 1361 1350">UHF Low Power Side Mount Antenna \$33,885.00</td></tr> <tr> <td data-bbox="726 1451 1029 1574">Component Description: Amount:</td><td data-bbox="1169 1451 1345 1574">CO Sales Tax- Invoice 503002 \$2,411.77</td></tr> </table>	Component Description: Amount:	CO Sales Tax \$447.93	Component Description: Amount:	UHF Low Power Side Mount Antenna \$33,885.00	Component Description: Amount:	CO Sales Tax- Invoice 503002 \$2,411.77		
Component Description: Amount:	CO Sales Tax \$447.93								
Component Description: Amount:	UHF Low Power Side Mount Antenna \$33,885.00								
Component Description: Amount:	CO Sales Tax- Invoice 503002 \$2,411.77								

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	\$10,227.82	\$12,032.94		\$12,032.94	
Flexible Air Transmission Line - dielectric, 3"	\$5,900.00	\$7,705.12	Per Estimated Estimated Cost Justification KETD-310- Primary Transmission Line - 3 Air Dielectric V1	\$7,705.12	N/A
Dehydrator	\$4,327.82	\$4,327.82	see Estimated Cost Justification KETD Primary Antenna Elbow Complex and Dehydrator categories v0	\$4,327.82	N/A
Sub-total	\$10,227.82	\$12,032.94	N/A	\$12,032.94	N/A
Total for all systems	\$2,051,593.66	\$1,341,670.63	N/A	\$414,194.96	N/A

Components

Actual Information Description	File Name
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Flexible Air Transmission Line - dielectric, 3"	<div> Component Description: <div>KETD-310- Primary Transmission Line - 3" Air Dielectric</div> </div> <div> Amount: <div>\$4,105.70</div> </div>
	<div> Component Description: <div>CO Sales Tax Invoice 829005</div> </div> <div> Amount: <div>\$127.20</div> </div>
	<div> Component Description: <div>KETD-310- Primary Transmission Line - 3" Air Dielectric</div> </div> <div> Amount: <div>\$292.22</div> </div>
	<div> Component Description: <div>Reducer 4-50 EIA X 3-50 EIA STD "QS</div> </div> <div> Amount: <div>\$3,180.00</div> </div>
Dehydrator	<div> Component Description: <div>KETD-310- Primary transmission line - dehydrator</div> </div> <div> Amount: <div>\$287.57</div> </div>
	<div> Component Description: <div>KETD-310- Primary transmission line - dehydrator</div> </div> <div> Amount: <div>\$4,040.25</div> </div>

Cost
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$617,300.00	\$587,000.00		\$48,594.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	\$9,970.00	N/A
Structural Analysis	<i>\$12,000.00</i>	\$12,000.00	N/A	\$4,136.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$34,488.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$617,300.00	\$587,000.00	N/A	\$48,594.00	N/A
Total for all systems	\$2,051,593.66	\$1,341,670.63	N/A	\$414,194.96	N/A

Components

Actual Information	
Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: KETD-410-Existing Primary Tower - Complex Tower, Tower Rigging and Equipment Amount: \$3,750.00
	Component Description: KTED / KCEC Contract Demo Beam Supplies (3) Mobilization Costs Amount: \$6,220.00
Structural Analysis	Component Description: ENGINEERING Amount: \$4,136.00
Minor tower reinforcement /modifications	Component Description: Down PMT 50% Amount: \$17,244.00
	Component Description: Final PMT 50% Amount: \$17,244.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	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	\$299,436.00	\$300,114.55		\$113,761.05	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,520.90	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$2,520.90	see submitted invoices
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$11,541.15	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$11,541.15	Please see submitted invoices.
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	\$134.10	N/A
Additional Field Engineering Service, 10 Days	<i>\$20,000.00</i>	\$20,000.00	N/A	\$3,125.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$8,000.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$14,752.50	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$14,752.50	Please see submitted invoices.

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	\$351.00	N/A
Project management of the transition	\$112,496.00	\$106,800.00	N/A	\$73,086.40	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	\$4,100.00	\$3,000.00	N/A	N/A	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
Sub-total	\$299,436.00	\$300,114.55	N/A	\$113,761.05	N/A
Total for all systems	\$2,051,593.66	\$1,341,670.63	N/A	\$414,194.96	N/A

Components

Actual Information
Description

File Name

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	Prepare KETD repack channel license application
	Amount:	\$2,113.65
	Component Description:	KETD-550-Attorney - License to Cover Application (Main)
	Amount:	\$407.25
Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description:	Legal services
	Amount:	\$351.00
	Component Description:	For Professional Services Rendered
	Amount:	\$2,036.25
	Component Description:	Total Professional Services
	Amount:	\$839.70
	Component Description:	KETD-550-Attorney - Negotiate Lease and Other Matters
	Amount:	\$407.25
	Component Description:	KETD-550-Attorney - Negotiate Lease and Other Matters
	Amount:	\$541.35
	Component Description:	For Professional Services Rendered
	Amount:	\$1,464.75

	Component Description: Amount:	Total Professional Services \$1,965.60
	Component Description: Amount:	KETD, Castle Rock, CO Channel Repack \$3,528.00
	Component Description: Amount:	Email corr w/ C. Buchanan and M. Todd re: repack construction \$407.25
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount:	Review FCC grant of extension and waiver request \$134.10
Additional Field Engineering Service, 10 Days	Component Description: Amount:	Principal Engineer (Jacobsmeier) \$3,125.00
RF Exposure Measurements	Component Description: Amount:	Services for KETD SEE PO# HE-021120-001 \$8,000.00
Comprehensive coverage verification via field study, if needed	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	

ASR modification (prepare FCC Form 854)	Information not provided.
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.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Perform engineering study for new channel assignment and antenna development	<div> <div>Component Description:</div> <div>KETD-530-RF Eng - Engineering Study for New Channel Assignment</div> </div> <div> <div>Amount:</div> <div>\$14,752.50</div> </div>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	<div> <div>Component Description:</div> <div>Legal Services</div> </div> <div> <div>Amount:</div> <div>\$351.00</div> </div>
Project management of the transition	<div> <div>Component Description:</div> <div>Project management</div> </div> <div> <div>Amount:</div> <div>\$3,107.60</div> </div> <div> <div>Component Description:</div> <div>Project Management</div> </div> <div> <div>Amount:</div> <div>\$636.70</div> </div>

Component Description:	Project Management
Amount:	\$2,774.55

Component Description:	Project Management
Amount:	\$2,060.35

Component Description:	Project Management
Amount:	\$3,580.55

Component Description:	Project Management
Amount:	\$206.65

Component Description:	Project Management
Amount:	\$3,099.45

Component Description:	Project Management
Amount:	\$743.60

Component Description:	Project Management
Amount:	\$1,197.35

Component Description:	Project Management
Amount:	\$3,169.60

Component Description:	Project Management
Amount:	\$2,409.05

Component Description:	Project Management
Amount:	\$2,343.50

Component Description:	Project Management
Amount:	\$5,614.90

Component Description:	Project Management
Amount:	\$3,257.80

Component Description:	Project Management
Amount:	\$3,331.00

Component Description:	Project Management
Amount:	\$2,200.55

Component Description:	Project Management
Amount:	\$1,865.70

Component Description:	Project Management
Amount:	\$2,202.80

Component Description:	Project Management
Amount:	\$1,259.55

Component Description:	Project Management
Amount:	\$1,394.00

Component Description:	Project Management
Amount:	\$2,266.55

Component Description:	Project Management
Amount:	\$1,843.05

Component Description:	Project Management
Amount:	\$3,054.25

Component Description:	Project Management
Amount:	\$1,814.40

Component Description:	Project Management
Amount:	\$994.50

Component Description:	Project Management
Amount:	\$4,533.60

Component Description:	Project Management
Amount:	\$2,383.80

Component Description:	Project Management
Amount:	\$1,208.35

Component Description:	Project Management
Amount:	\$3,295.50

	Component Description: Project Management Amount: \$4,533.60
	Component Description: Project Management Amount: \$2,724.85
	Component Description: Project Management Amount: \$2,512.30
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Consulting engineer - J. Davis - Hourly Amount: \$250.00

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	\$87,232.16	\$86,647.16		\$25,529.06	
MVPD Notification of Channel Change	<i>\$12,358.16</i>	\$12,358.16	Please Estimated Cost Justification KETD-610-MVPD Notification v2	\$12,358.16	Please see submitted invoices.
Non-zoning permits	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Local Zoning	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$200.00	See Estimated Cost Justification KETD-610-FCC Filing - Special Temporary Authorization v0	\$200.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$10,000.00</i>	\$10,000.00	N/A	\$1,599.00	N/A

Equipment Rental	\$1,684.00	\$1,684.00	Please see KETD Equipment Rental Budget Revision Justification Letter	\$1,684.00	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$15,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	See Estimated Cost Justification KETD-610-FCC Filing - License to Cover Application v0	\$335.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	\$146.25	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$8,322.00	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$884.65	N/A
Sub-total	\$87,232.16	\$86,647.16	N/A	\$25,529.06	N/A
Total for all systems	\$2,051,593.66	\$1,341,670.63	N/A	\$414,194.96	N/A

Components

Actual Information	
Description	File Name
MVPD Notification of Channel Change	Component Description: MVPD Notification Amount: \$4,577.10
	Component Description: Notification of Cable and Satellite Amount: \$3,890.53
	Component Description: MVPD Notification Services Amount: \$3,890.53
Non-zoning permits	Information not provided.
Local Zoning	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Component Description: KETD-610-FCC Filing Fee - Special Temporary Authorization Amount: \$200.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: KTED / KCEC Contract Demo (Beam Supplies) Add On Amount: Mobilization Costs \$1,599.00
Equipment Rental	Component Description: KETD-610- Equipment Rental Amount: \$1,684.00
Develop and air announcement of upcoming channel change	Information not provided.

FCC Filing Fees - Form 2100 license to cover application	Component Description: KETD-610-FCC Filing Fee - License to Cover Application Amount: \$335.00
FCC Filing Fees - Form 2100 minor change CP application	Component Description: KETD, Castle Rock, CO Channel Repack Amount: \$146.25
DTV Medical Facility Notification	Component Description: DTV Notification Amount: \$8,322.00
Equipment Delivery and Handling Charges	Component Description: Freight and shipping Amount: \$884.65

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$2,051,593.66	\$1,341,670.63
			\$414,194.96

Reimbursement Status	Question	Response
	The facility has ceased operating on its pre-auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>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.</p>	
		<ol style="list-style-type: none"> 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.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Michael Everett Todd <i>Chief Engineer</i></p> <p>11/03/2020</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Michael Everett Todd <i>Chief Engineer</i></p> <p>11/03/2020</p>

Attachments