



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **144** | Service: **DTV** | Call **KNVA** | Channel: **23 (UHF)**
ID: | Sign:
File **0000028705**
Number:
FRN: **0006564959** | Date **11/29**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
54 BROADCASTING, INC.	Thomas J. Vaughan 901 W. MARTIN LUTHER KING BOULEVARD AUSTIN, TX 78701 United States	+1 (512) 478- 5400	glenn. richards@pillsburylaw. com	Corporation

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
Jessica Nyman , Esq . <i>FCC Counsel</i> <i>Pillsbury Winthrop Shaw</i> <i>Pittman LLP</i>	Jessica Nyman 1200 Seventeenth Street, NW Washington, DC 20036 United States	+1 (202) 663-8810	jessica. nyman@pillsburylaw. com

**Broadcaster
Information
and
Transition
Plan**

Question		Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.		Yes
Briefly describe transition plan		Replace transmitter, antenna, and transmission line. Acquire interim antenna system during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. See updated transition plan.

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	CTT-U-40 DCX-2H
	Year	2000
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 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	THU9evo-36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.1 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be re-tuned to the assigned channel. A new Comark Paragon MSDC IOT transmitter is the basis for the replacement cost, but the SS is less expensive. See attached quotes.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other 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
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line

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?	No
	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	Top Mount
	Antenna position in stack	Top
	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)	500.0 kW

Manufacturer	
Model	TFU-30GTH 04
Year	2000

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?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	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)	500.0 kW
	Manufacturer	
	Model	TFU-22GTH /VP-R O6 TC

Year	2019
Justification for New Antenna	Existing antenna is a single channel, top-of-stack, slot which can't accommodate assigned channel. Bottom stack (old analog) can't support new antenna, thus, a 57.4 ft support pole is required below new antenna to maintain radiation center and FAA height.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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	8 3/16 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

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
ANTENNA SUPPORT POLE	ANTENNA SUPPORT POLE, 57.4 FT. MAINTAINS EXISTING OVERALL STRUCTURE HEIGHT ON TOWER.
FEED THROUGH COMPONENTS	FEED THROUGH COMPONENTS TO CONNECT ANTENNA INPUT TO ELBOW COMPLEX INSIDE CANDELABRA ARM
ANTENNA MOUNTING WEDDING CAKE	ANTENNA MOUNTING WEDDING CAKE ADAPTER, 3 FT. ALLOWS ANTENNA TO MOUNT ON NEW SUPPORT POLE

**Interim
Antenna**

New Antenna Costs

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?	Yes
	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	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	24
	Lower Limit	512.00 MHz
	Upper Limit	686.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	950.0 kW
	Manufacturer	
	Model	TFU-WB-24 C160
	Year	2019

	Justification for New Antenna	An interim antenna is necessary to keep stations on the air during primary antenna replacement and for the duration of the assigned phase.
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Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	Upper and lower frequency
	Frequency	512.0 MHz - 686.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	6 1/8 inches
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?	Yes

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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**Interim
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	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1260 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	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1300 feet per run

	Justification for New Transmission Line	The line might be compatible with the assigned channel, but a new line is budgeted in case the performance is unacceptable on the assigned channel. The station will utilize the existing line if the sweep tests confirm acceptable performance.
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Primary Transmission Line	Other Transmission Line Expenses Not Listed
	Information not provided.

Interim **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 3/4 '
	Other Segment Length	
	Number of parallel runs	1
	Length	1075 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep stations on the air during primary antenna replacement and for the duration of the assigned phase.

Interim **Other Transmission Line Expenses Not Listed**
Transmission Line

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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 Registration	Do you have a tower registration number?	Yes
	ASR Number	1050398
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	30° 19' 34.0" N-
	Longitude (NAD83)	097° 47' 59.0" W-
	Overall Structure Height	1197.49 feet
	Support Structure Height	1079.38 feet
	Ground Elevation Above Mean Sea Level (AMSL)	849.73 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	LIN Television of Texas, L. P.
	Date Constructed	09/22/1965

**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
35920	KXAN-TV	DTV
35918	KBVO-CD	DTV
35882	KTFO-CD	DTV

Other Types of Users

Users
2 RPU licenses
15 mwave licens

**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:	Serious Reinforcements needed
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**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	1000
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
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	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	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	No
	Additional Field Engineering Service	Yes

Number of Days	20
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**
Services provided by the contractor are not 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	No
	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?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses	Other Expenses Not Listed Information not provided.
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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 THU9evo-36	\$1,167,200.00	\$1,043,600.00		\$63,886.50	
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	\$63,886.50	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$37,150.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$825,600.00	Quoted cost is lower than the IOT equivalent. Cost revised from 788,930 to 825,600 per Rohde & Schwarz quote 132940.2 attached.	\$0.00	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,850.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$1,167,200.00	\$1,043,600.00	N/A	\$63,886.50	N/A

Total for all systems	\$4,522,502.00	\$4,026,455.30	N/A	\$1,076,316.08	N/A
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Components

Actual Information	
Description	File Name
Additional Interior RF System	Component Description: Three channel combiner, installment #2
	Amount: \$31,943.25
	Component Description: Three channel combiner, installment #1
	Amount: \$31,943.25
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

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
Interim Antenna TFU-WB-24 C160	\$282,090.00	\$273,855.00		\$135,405.00	
Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,120.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 950 kW input, directional,, horizontally polarized	<i>\$150,450.00</i>	\$150,450.00	See Dielectric Quote Number DMS127-3. KNVA will share interim antenna with KXAN; however, KXAN is a "Non-Repack" station; therefore, expenses are not shared. Interim antenna is required for stations to remain on-air while main facility is built-out.	\$135,405.00	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,500.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$77,385.00	See attached Dielectric quote (Quote No. 800047CMZ). NOTE: See updated repack transition plan.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See attached Dielectric quote (Quote No. DMS127-3).	N/A	N/A
Primary Antenna TFU-22GTH/VP-R O6 TC	\$473,112.00	\$375,817.00		\$332,475.30	
ANTENNA MOUNTING WEDDING CAKE	\$18,300.00	\$18,300.00	See attached Dielectric Quote (Quote No. DMS095-2). NOTE: See updated repack transition plan.	\$16,470.00	N/A

ANTENNA SUPPORT POLE	\$119,044.00	\$119,044.00	See attached Dielectric Quote (Quote No. DMS095- 2). NOTE: See updated repack transition plan.	\$107,139.60	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$16,650.00	See attached Dielectric Quote (Quote No. DMS095- 2). NOTE: See updated repack transition plan.	\$14,985.00	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$194,835.00	See attached Dielectric Quote (Quote No. DMS095- 2). NOTE: Costs for V- pol fill have been removed. NOTE: See updated repack transition plan.	\$175,351.50	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See attached Dielectric Quote (Quote No. DMS095- 2).	N/A	N/A
FEED THROUGH COMPONENTS	\$20,588.00	\$20,588.00	See attached Dielectric Quote (Quote No. DMS095- 2). NOTE: See updated repack transition plan.	\$18,529.20	N/A

Sub-total	\$755,202.00	\$649,672.00	N/A	\$467,880.30	N/A
Total for all systems	\$4,522,502.00	\$4,026,455.30	N/A	\$1,076,316.08	N/A

Components

Actual Information	
Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 950 kW input, directional,, horizontally polarized	<div> Component Description: Antenna component, line 1 of invoice, installment #1 </div> <div> Amount: \$67,702.50 </div> <div> Component Description: Antenna component, line 1 of invoice, installment #2 </div> <div> Amount: \$67,702.50 </div>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
Sweep test of existing antenna	Information not provided.

ANTENNA MOUNTING WEDDING CAKE	<div> Component Description: Antenna mounting component, line 3 of invoice, installment #1 </div> <div> Amount: \$8,235.00 </div>
	<div> Component Description: Antenna Mounting component, line 3 of invoice, installment #2 </div> <div> Amount: \$8,235.00 </div>
ANTENNA SUPPORT POLE	<div> Component Description: Antenna support pole component, line 4 of invoice, installment #1 </div> <div> Amount: \$53,569.80 </div>
	<div> Component Description: Antenna support pole, line 4 of invoice, installment #2 </div> <div> Amount: \$53,569.80 </div>
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	<div> Component Description: Digitline elbow complex, line 6 of invoice, installment #1 </div> <div> Amount: \$7,492.50 </div>
	<div> Component Description: Digitline elbow complex, line 6 of invoice, installment #2 </div> <div> Amount: \$7,492.50 </div>

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="710 100 1021 324">Component Description:</td><td data-bbox="1021 100 1428 324">UHF High Power Top Mount, line 1 of invoice, installment #2</td></tr> <tr> <td data-bbox="710 324 1021 436">Amount:</td><td data-bbox="1021 324 1428 436">\$87,675.75</td></tr> <tr> <td data-bbox="710 436 1021 660">Component Description:</td><td data-bbox="1021 436 1428 660">UHF High Power Top Mount, line 1 of invoice, installment #1</td></tr> <tr> <td data-bbox="710 660 1021 728">Amount:</td><td data-bbox="1021 660 1428 728">\$87,675.75</td></tr> </table>	Component Description:	UHF High Power Top Mount, line 1 of invoice, installment #2	Amount:	\$87,675.75	Component Description:	UHF High Power Top Mount, line 1 of invoice, installment #1	Amount:	\$87,675.75
Component Description:	UHF High Power Top Mount, line 1 of invoice, installment #2								
Amount:	\$87,675.75								
Component Description:	UHF High Power Top Mount, line 1 of invoice, installment #1								
Amount:	\$87,675.75								
<p>Sweep test of existing antenna</p>	<p>Information not provided.</p>								
<p>FEED THROUGH COMPONENTS</p>	<table> <tr> <td data-bbox="710 840 1021 1064">Component Description:</td><td data-bbox="1021 840 1428 1064">Feed through components, line 5 of invoice, installment #1</td></tr> <tr> <td data-bbox="710 1064 1021 1176">Amount:</td><td data-bbox="1021 1064 1428 1176">\$9,264.60</td></tr> <tr> <td data-bbox="710 1176 1021 1400">Component Description:</td><td data-bbox="1021 1176 1428 1400">Feed through component, line 5 of invoice, installment #2</td></tr> <tr> <td data-bbox="710 1400 1021 1469">Amount:</td><td data-bbox="1021 1400 1428 1469">\$9,264.60</td></tr> </table>	Component Description:	Feed through components, line 5 of invoice, installment #1	Amount:	\$9,264.60	Component Description:	Feed through component, line 5 of invoice, installment #2	Amount:	\$9,264.60
Component Description:	Feed through components, line 5 of invoice, installment #1								
Amount:	\$9,264.60								
Component Description:	Feed through component, line 5 of invoice, installment #2								
Amount:	\$9,264.60								

**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
Interim Transmission Line	\$217,150.00	\$147,251.30		\$132,526.18	
Rigid Transmission Line - copper, 6 1/8"	\$217,150.00	\$147,251.30	See Dielectric Quote Number DMS127-3. KNVA will share Interim transmission line with KXAN; however, KXAN is a "Non- Repack" station; therefore, expenses are not shared. Interim line is required for stations to remain on-air while main facility is built-out	\$132,526.18	N/A
Primary Transmission Line	\$451,100.00	\$300,729.00		\$270,656.10	

Rigid Transmission Line - copper, 8 3/16"	\$451,100.00	\$300,729.00	See attached Dielectric Quote (Quote No. DMS095-2). NOTE: See updated repack transition plan.	\$270,656.10	N/A
Sub-total	\$668,250.00	\$447,980.30	N/A	\$403,182.28	N/A
Total for all systems	\$4,522,502.00	\$4,026,455.30	N/A	\$1,076,316.08	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8"	
	Component Description: Rigid transmission line, line 2 of invoice, installment #2
	Amount: \$66,263.09
	Component Description: Rigid transmission line, line 2 of invoice, installment #1
	Amount: \$66,263.09

Rigid Transmission Line - copper, 8 3/16"		
	Component Description:	Rigid transmission line component, line 7 of invoice, installment #1
	Amount:	\$135,328.05
	Component Description:	Rigid transmission line, line 7 of invoice, installment #2
	Amount:	\$135,328.05

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	\$1,499,300.00	\$1,459,100.00		\$141,367.00	
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,024,000.00	NOTE: See updated repack transition plan.	\$123,867.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$409,500.00	NOTE: See updated repack transition plan.	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,600.00	N/A	\$17,500.00	N/A
Sub-total	\$1,499,300.00	\$1,459,100.00	N/A	\$141,367.00	N/A
Total for all systems	\$4,522,502.00	\$4,026,455.30	N/A	\$1,076,316.08	N/A

Components

Actual Information Description	File Name
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Serious tower reinforcement /modifications	Component Description:		Deposit for Tower services
	Amount:		\$10,000.00
	Component Description:		Deposit for Tower Modification Services
	Amount:		\$82,127.00
	Component Description:		Deposit for Antenna replacement services
	Amount:		\$31,740.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.		
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description:		Design structural modifications
	Amount:		\$5,000.00
	Component Description:		Structural report
	Amount:		\$6,000.00
	Component Description:		Structural mapping
	Amount:		\$6,500.00

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	\$310,860.00	\$304,755.00		\$0.00	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,050.00	N/A	N/A	N/A
Project management of the transition	\$158,000.00	\$154,000.00	N/A	\$0.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,560.00	N/A	\$0.00	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,070.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,535.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,070.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,170.00	N/A	\$0.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,560.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,120.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,305.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,095.00	N/A	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,170.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,050.00	N/A	N/A	N/A
Additional Field Engineering Service, 20 Days	\$108,000.00	\$108,000.00	N/A	N/A	N/A
Sub-total	\$310,860.00	\$304,755.00	N/A	\$0.00	N/A
Total for all systems	\$4,522,502.00	\$4,026,455.30	N/A	\$1,076,316.08	N/A

Components

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	\$121,690.00	\$121,348.00		\$0.00	
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$333.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$195.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$6,500.00</i>	\$6,500.00	Production time to produce spots and crawls for viewer notification.	\$0.00	N/A
Equipment Storage	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,250.00	N/A	N/A	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
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$121,690.00	\$121,348.00	N/A	\$0.00	N/A
Total for all systems	\$4,522,502.00	\$4,026,455.30	N/A	\$1,076,316.08	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$4,522,502.00	\$4,026,455.30
			\$1,076,316.08

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>Thomas J. Vaughan <i>President</i></p> <p>11/29/2018</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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).	
		<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>Thomas J. Vaughan <i>President</i></p> <p>11/29/2018</p>

Attachments