

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File	35434 000002	Service: DTV	Call Sign:	KOTV-DT	Channel: 26 (UHF)
Number:					
FRN: 001	5452238	Date	02/13		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
GRIFFIN LICENSING, L.L. C. Doing Business As: Griffin Licensing, L.L.C.	Trevor Wiseman 7401 N. KELLEY AVENUE OKLAHOMA CITY, OK 73111 United States	+1 (405) 841- 9106	trevor. wiseman@griffincommunications. net	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Preparer Contact Name and Information Contact Applicant Address Phone Email The Preparer is same as the reimbursement contact. The Preparer is same as the reimbursement contact. Email

Broadcaster	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
	Briefly describe transition plan	Please see attached Transition Plan Narrative.

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

Primary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
		Is this transmitter currently in operating condition?	Yes		
	Existing Transmitter	Manufacturer			
	Manufacturer and Type	Model	CDP3260P2		
		Year	2001		
		Туре	Inductive Output Tube		
		IOT Power Type	Two		
		Power Capacity	64.2 kW		

Existing Transmitter Information

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-80		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	50.1 kW		
		Justification for New Transmitter	See attached Transition Plan Narrative		

Other Transmitter Costs

Primary	Other Transmitter Costs			
Transmitter	Section	Question	Response	
	Electrical Service	Service Entrance (3 phases 800A 208V)	No	
		Switchgear (industrial 800 amp)	Yes	
		Transformer (480V)	No	
		Power	N/A	
		Rigid Conduit and Wiring	Yes	
		Size	3 inches	
		Length	200.0 feet	
		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.

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

Auxiliary	Existing Antenna Information				
Antenna	Section	Question	Response		
	Existing Antenna Description	Type of change	Purchase New		
		Antenna Use	Auxiliary (Backup)		
		Description of Use	Auxiliary (Backup)		
		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?	No		
	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)	869.6 kW		

Manufacturer	
Model	TFU-28DSC- R O4
Year	2008

Auxiliary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Auxiliary (Backup)	
		Description of Use	Auxiliary (Backup)	
		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?	No	
	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)	730.0 kW	
		Manufacturer		

Мос	lel	TFU-30DSC O4A
Yea	r	2018
Just	ification for New Antenna	See attached Transition Plan Narrative.

Response

Auxiliary
Antenna Other Antenna Costs Section Question Combiner for Shared
Antenna Do you need a Combiner for a Shared
Antenna? Type Number of the section of

Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	7 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed Auxiliary Antenna

Information not provided.

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna Manufacturer and Type	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Bottom	
		Polarization	Elliptical	
		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)	840.0 kW	

	Manufacturer	
	Model	TFU-30GBH- R O8
	Year	2008

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?	No	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	No	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna Manufacturer and Types	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Bottom	
		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)	574.0 kW	
		Manufacturer		

Model	TFU-25JBH /VP-R O8
Year	2018
Justification for New Antenna	See attached Transition Plan Narrative.

Primary Antenna Section Question Response **Combiner for Shared** Do you need a Combiner for a Shared Antenna Antenna? Туре Number of channels supported N/A Frequencies of channels supported N/A N/A Frequency N/A Do you need a combiner output splitter /switcher for dual feed lines? **Elbow Complex** Do you require the separate purchase of the Yes Elbow Complex? Broadband or Single Channel? Single Channel Feed Line Size 6 1/8 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? Do you require the sweep testing of Yes Sweep Test

transmission line and antenna?

Other Antenna Costs

PrimaryOther Antenna Cost Not ListedAntennaInformation not provided.

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

Auxiliary Existing Transmission Line

Auxiliary Existin

ansmission	Section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		Use	Auxiliary (Backup)
		Description of Use	Auxiliary (Backup)
		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	Dielectric
		Туре	Rigid
		Diameter	7 3/16 inches
		Other Diameter	N/A
		Segment Length	Broadband
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1680 feet per run

Auxiliary	Other Transmission Line Expenses Not Listed		
Transmission	n Hine	Description	
	Sweep Test	Sweep test of existing transmission line to verify ability to support post-auction channel 26	

Primary	Existing Transmission Line			
Transmissio	on Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and Type	Manufacturer		
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 3/4 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	1950 feet per run	

Existing Transmission Line

Primary	New Transmission Line			
Transmissior	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	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	1950 feet per run	
		Justification for New Transmission Line	See attached Transition Plan Narrative.	

Other Transmission Line Expenses Not Listed TransmissionInficineation 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	Add Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Is this tower consider Complex?		
		Is this tower currently shared with any other stations?	Yes	
		One or more FM, AM or TV radio broadcaster (s)	Yes	
		Others Types of Users	No	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	Yes	
	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1011355	
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	36° 01' 15.0" N-	
	1983))	Longitude (NAD83)	095° 40' 33.0" W-	
		Overall Structure Height	1838.89 feet	
		Support Structure Height	1838.89 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	709.97 feet	

Structure Type	TOWER - Free Standing o Guyed Structure
Tower Owner	TULSA TOWER JOINT VENTURE
Date Constructed	09/01/1984

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
66586	KWGS	FM
81517	KWTU	FM
66195	KOED-TV	DTV
37099	KWHB	DTV
59439	KJRH-TV	DTV

Tower Modification Costs Primarv

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

Tower Rigging Costs Primary Section

Tower

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

Primary
Tower Other Tower Expenses Not Listed Name Description Auxiliary antenna replacement Replace auxiliary antenna

Outside Professional Services Costs	Section	Question	Response
	Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	711
		Explanation	Please see Transition Plan Narrative.
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	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	Yes
		For Main Facility	Yes
		Prepare and file Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes

	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs	Other Professional Services Expenses Not Listed		
	Name	Description	
	Transmitter Installation	MARSAND is retained to install and commission transmitter.	

Other Expenses	Section	Question	Response
	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	No
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	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?	No
		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	Other Expenses Not Listed
Expenses	Name

Description

Attorney Fee - FCC Filing Fee	FCC Filing fees associated with Repack.
Attorney Fee - Repack Planning	FCC Repack planning
Attorney Fee - Review Work Form 387	Review and Work on Form 387 for KO
Aux Antenna - RFreight	Aux Antenna - RFreight, shipping, and handling as per Dielectric invoice attached SO 87002 KOTV Invoice MAN00153.pdf line item 30.
Main Antenna - RFreight	Main Antenna - RFreight, shipping, and handling as per Dielectric invoice attached SO 87002 KOTV Invoice MAN00153.pdf line item 32.
Site Prep Electrical	S and J electrical work performed prior to Shawvers arrival. There was an existing electrical conduit that required relocation. This relocation made room to install the hose tray for the new transmitter.
Site Prep - TX Space	Site prep for space new transmitter will be installed in / wall furring - inclosure.
Site Prep Equipment	To receive in equipment and move around parts for install a pallet jack was required to be purchased.
Tower Site Security	Tower site does not have security cameras. KOTV adding security cameras for security purposes of storing millions of dollars worth of repack at KOTV's building at tower site.
Transmitter Shipping-Handling	Shipping - Handling for GatesAir Transmitter as per attached quote - KOTVULXTE80.pdf
Site Prep Ingress - Egress	This project was required to guarantee heavy equipment ingress and egress routes around the structure and to the winch anchor and pad on the SW side of the structure.

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 ULXTE-80	\$1,481,391.38	\$1,512,441.38		\$1,502,641.38	
UHF - Liquid Cooled Solid State Transmitter 50.1 kW	\$503,188.15	\$503,188.15	Upated UHF Transmitter Description as per FCC email received on 8/9 /2019. As per instructions of 399 the adjustment to description created a new cost component. This is for Final invoice to GatesAir. Updated for Change Order Q85380	\$503,188.15	Received requested by FCC on 8/9/2019 requesting the description of the transmitter to be changed to 50.1kw to match final GatesAir Invoice. This caused a new cost estimate line item for the 50.1 kw item.
3" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$9,800.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$69,850.00	Furnish and Install 800amp panel/breakers /equipment.	\$69,850.00	N/A

UHF - Liquid Cooled Solid State Transmitter 63 kW	\$929,603.23	\$929,603.23	***System Notice: Estimate adjusted and locked because line has been superseded. ***Refer to quote GA- 00023857 - KOTVULXTE80. PDF. The estimated cost on this quote was verified as part of 399 and according to our verfication letter was approved for this amount. The first third of this same quote was paid 11 /2017.	\$929,603.23	Received requested by FCC on 8/9/2019 requesting the description of the transmitter to be changed to 50.1kw to match final GatesAir Invoice. This caused a new cost estimate line item for the 50.1 kw item.
Sub-total	\$1,481,391.38	\$1,512,441.38	N/A	\$1,502,641.38	N/A
Total for	\$3,868,375.85	\$4,086,474.85	N/A	\$2,190,830.80	N/A
all systems		. ,			

Components

File Name	
Component Description: Amount:	Final Payment - Transmitter Received. \$497,448.36
Component Description: Amount:	Additional Parts to install GatesAir Transmitter at site. \$5,739.79
	Component Description: Amount: Component Description:

(Cost per foot)		
Switchgear - industrial 800 amp	Component Description:	Progress Invoice for work completed towards installing
	Amount:	800amp. \$15,200.00
	Component Description:	Invoice 2 for work completed for transmitter electrica
	Amount:	panel work. \$54,650.00

UHF - Liquid Cooled Solid State Transmitter 63 kW	Component Description:	GatesAir 1/3 ARO -
		down payment for transmitter - As per Quote GA-00023857
	Amount:	\$453,919.37
	Component Description:	Invoice 2 of 3 for Transmitter - 33% Prior to Ship Invoice - GatesAir - KOTV JW30004177-2
	Amount:	\$475,683.86
	Component Description:	Transmitter Payment Invoice 3 of 3 - Final - Equipment Received. Updated Equipment Description as per request and it created a new line. Moving component under Transmitter for 50.1kw cost estimate. N/A

Antennas

Cost Information

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

Description Primary Antenna TFU-25JBH	Predetermined Cost Estimate \$308,530.00	Estimated Cost \$538,520.00	Estimated Cost Justification	Actual Cost \$254,208.90	Actual Cost Justification
/VP-R O8 Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$31,920.00	Please see transition plan narrative and attached Dielectric Main Antenna Quote for base and upgrade.	\$7,900.20	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see transition plan narrative and attached Dielectric Main Antenna Quote for base and upgrade.	\$4,224.00	N/A

UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$500,200.00	Antenna is the bottom antenna in a stacked set and pre- determined costs will likely double. For details, see attached Transition Plan Narrative and attached Dielectric Main Antenna Quote for base and upgrade.	\$242,084.70	N/A
Auxiliary Antenna TFU-30DSC O4A	\$316,390.00	\$313,800.00		\$129,142.20	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included	\$23,150.00	\$22,000.00	N/A	\$10,840.50	N/A

Elbow complex,	\$16,850.00	\$16,000.00	Please see transition	\$7,900.20	N/A
broadband, at antenna input, per 7 3/16. feedline (if needed)			plan narrative and attached Dielectric Aux		
needed)			Antenna Quote for base and upgrade.		
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see transition plan narrative and attached Dielectric Aux Antenna Quote for base and upgrade.	\$4,224.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 730 kW input, elliptically or circularly polarized	\$264,400.00	\$264,400.00	See Transition Plan Narrative and attached Dielectric Aux Antenna Quote for base and upgrade.	\$106,177.50	N/A
Sub-total	\$624,920.00	\$852,320.00	N/A	\$383,351.10	N/A
Total for all systems	\$3,868,375.85	\$4,086,474.85	N/A	\$2,190,830.80	N/A

Components

Actual Information	
Description	File Name

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	Elbow Complex 6- 75 Digit KOTV Main. Item 4 on invoice - Prior to
	Amount:	Ship 33% \$3,950.10
	Component Description:	Elbow Complex 6- 75 Digit KOTV Main. Item 4 on
	Amount:	invoice - first 33% \$3,950.10
Sweep test of existing antenna		
	Component Description:	Sweep - on-site for KOTV Main. Item 33 on invoice, Prior to Ship 33%.
	Amount:	\$2,112.00
	Component Description:	Sweep - on-site for KOTV Main. Item 33 on invoice, first
	Amount:	33%. \$2,112.00
UHF - High Power Top Mount (200-1000 kW), One station		
antenna , elliptically or circularly polarized	Component Description:	UHF Main Antenna, VPOL, Top Plate. Items 1,2,3 on invoice. Prior to
	Amount:	Ship 33%. \$121,042.35
	Component Description:	UHF Main Antenna, VPOL, Top Plate. Items 1,2,3 on invoice. First 33%.
	Amount:	\$121,042.35

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:	KOTV Aux Side Mounts, also includes scatter study. Item 26 on invoice. Prior to Ship 33% \$5,420.25
	Component Description: Amount:	KOTV Aux Side Mounts, also includes scatter study. Item 26 on invoice. First 33% \$5,420.25
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description: Amount:	Elbow complex 6- 75 KOTV Aux, item 27 on invoice. Prior to Ship 33%. \$3,950.10
	Component Description: Amount:	Elbow complex 6- 75 KOTV Aux, item 27 on invoice. First 33%. \$3,950.10

Sweep test of existing antenna		
	Component Description:	Sweep on-site KOTV Aux. Item 31 on invoice. Prior to Ship 33%
	Amount:	\$2,112.00
	Component Description:	Sweep on-site KOTV Aux. Item 31 on invoice. First 33%.
	Amount:	\$2,112.00
UHF - High Power, Side Mount, basic slot antenna, 730 kW input, elliptically or circularly polarized	Component Description:	UHF - Side Mount Aux Antenna KOTV. Item 24
	Amount:	invoice. Prior to Ship 33% \$53,088.75
	Component Description:	UHF - Side Mount Aux Antenna KOTV. Item 24
	Amount:	invoice. First 33% \$53,088.75

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 Co Justifica
Primary Transmission Line	\$393,900.00	\$404,600.00		\$210,437.86	
Rigid Transmission Line - copper, 6 1/8"	\$393,900.00	\$404,600.00	Please see transition plan narrative and attached Dielectric Main Antenna Quote for base and upgrade.	\$210,437.86	N/A
Auxiliary Transmission Line	\$6,751.00	\$6,751.00		\$6,275.59	
Sweep Test	\$6,751.00	\$6,751.00	Transmission line manufacturer recommends testing the line for ability to support post- auction channel 26. See attached Auxiliary line sweep recommendation.	\$6,275.59	N/A
Sub-total	\$400,651.00	\$411,351.00	N/A	\$216,713.45	N/A
Total for all systems	\$3,868,375.85	\$4,086,474.85	N/A	\$2,190,830.80	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line -		
copper, 6 1/8"	Component Description:	Rigid Transmission
		Line, TLSCR's,
		Reducer, and Test
		port. Items 5, 9, 28,
		and 29 on invoice.
		Prior to Ship 33%.
	Amount:	\$105,218.93
	Component Description:	Rigid Transmission
		Line, TLSCR's,
		Reducer, and Test
		port. Items 5, 9, 28,
		and 29 on invoice.
		First 33%.
	Amount:	\$105,218.93
Sweep Test		
	Component Description:	Updated with
		lodging receipt and
		mileage at \$0.545.
	Amount:	\$6,275.59

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
Primary Tower TOWER	\$791,600.00	\$762,000.00		\$6,500.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	Tower has a stacked antennas. Please see transition plan narrative.	N/A	N/A
Auxiliary antenna replacement	\$200,000.00	\$200,000.00	N/A	\$0.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$6,500.00	N/A
Sub-total	\$791,600.00	\$762,000.00	N/A	\$6,500.00	N/A
Total for all systems	\$3,868,375.85	\$4,086,474.85	N/A	\$2,190,830.80	N/A

Components

Actual Information Description File Name

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Auxiliary antenna replacement	Information not provided.	
Minor tower reinforcement /modifications	Information not provided.	
Structural engineering tower load study for well documented tower	Component Description:	Tower / Structural Analysis
	Amount:	\$6,500.00

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 Co Justificat
Outside Professional Services	\$416,793.00	\$404,192.00		\$19,660.25	
Transmitter Installation	\$160,600.00	\$160,600.00	MARSAND to install and commission transmitter. Please see attached MARSAND quote 1756.	\$3,399.75	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	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	\$440.50	N/A

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$767.00	N/
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,261.00	N
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$1,850.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,250.00	N/J
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$6,500.00	N/
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/
Prepare and or review reimbursement form	\$2,630.00	\$3,192.00	Sub-Total over Predetermined and Estimated Cost due to only taken in account Engineering review. Additional cost (s) are related to attorney fees.	\$3,192.00	Sub-T ove Predeter and Estin Cost du only tak accou Engine revie Addition (s) are re to attou fee

Project management of the transition	\$112,338.00	\$106,650.00	N/A	N/A	N/A
Sub-total	\$416,793.00	\$404,192.00	N/A	\$19,660.25	N/A
Total for all systems	\$3,868,375.85	\$4,086,474.85	N/A	\$2,190,830.80	N/A

Components

Actual Information Description	File Name	
Transmitter Installation	Component Description: Amount:	Distilled water for transmitter coolant pump installation. \$77.68
	Component Description: Amount:	Distilled water for transmitter coolant pump installation \$44.39
	Component Description:	Distilled water for transmitter coolant pump installation
	Amount: Component Description:	\$77.68 Concrete work
	Amount:	necessary for the coolant hoses from transmitter to heat exchangers outside. \$3,200.00
RF Exposure Measurements	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	

Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Form 2100 - Schedule A Modificatoin App / Draft App to reassign to new channel pursuant to post-auction repack. \$440.50
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Component Description: Amount:	Prepare draft app for new aux system, FCC Form 2100 aux antenna, finalize and file form 2100 aux antenna for KOTV. \$767.00
Attorney Fees - Prepare and File FCC Form 2100 (main),	Component Description:	FCC Form 2100
Construction Permit Application	Amount:	construction permit app for KOTV \$630.50
	Component Description:	Attorney call and prep work regarding KOTV FCC Form 2100 and 399.
	Amount:	\$194.00
	Component Description:	Combined work on FCC form 2100 and 399. Finalize and file FCC form 2100 and 399 for KOTV.
	Amount:	\$436.50

Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Amount:	Prepare engineering section of FCC Forn 2100, CP (AUX). \$1,850.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepare engineering section of FCC Forn 2100, CP Main \$2,250.00
Perform engineering study for new channel assignment and antenna development	Component Description:	Perform engineering study for new channel assignment and antenna development - complex system: multi-channel, shared combiner, multi-tenant site \$6,500.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Prepare and or review reimbursement form		
reimpursement iorm	Component Description:	KOTV Form 399
		Preparation
	Amount:	\$291.00
	Component Description:	Prepare and/or
		review
		reimbursement form.
	Amount:	\$2,500.00
	Component Description:	Work on FCC form
		399 for KOTV,
		submit FCC form
		399 and minor mod
		app and download
		full file copies.
	Amount:	\$401.00
Project management of the transition	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
Other Expenses	\$153,020.47	\$144,170.47		\$61,964.62
Transmitter Shipping- Handling	\$20,856.42	\$20,856.42	Shipping - Handling for GatesAir Transmitter Update for Change Order Q85380 Frieght	\$20,856.42
Site Prep Ingress - Egress	\$2,950.00	\$2,950.00	This project was required to guarantee heavy equipment ingress and egress routes around the structure and to the winch anchor and pad on the SW side of the structure.	\$2,950.00
Tower Site Security	\$1,751.89	\$1,751.89	Tower site does not have security cameras. KOTV adding security cameras for security purposes of storing millions of dollars worth of repack at KOTV's building at tower site.	\$1,751.89
Site Prep Equipment	\$3,590.00	\$3,590.00	To receive in equipment and move around heavy equipment for install a pallet jack was required to be purchased. Equipment necessar for construction of the channel grid to support the coolant hoses for new transmitter.	\$3,481.79
Site Prep - TX Space	\$3,966.16	\$3,966.16	Site where the new transmitter is being installed required some re-work of the wall inclosure.	\$3,966.16

Site Prep Electrical	\$1,400.00	\$1,400.00	S and J electric performed prior to Shawver's arrival. There was an existing electrical conduit that required relocation. This relocation made room to install the hose tray for the new transmitter.	\$1,400.00
Main Antenna - RFreight	\$22,318.00	\$22,318.00	Main Antenna - RFreight, shipping, and handling as per Dielectric invoice attached SO 87002 KOTV Invoice MAN00153.pdf line item 32.	\$14,729.88
Aux Antenna - RFreight	\$9,678.00	\$9,678.00	Aux Antenna - RFreight, shipping, and handling as per Dielectric invoice attached SO 87002 KOTV Invoice MAN00153.pdf line item 30.	\$6,387.48
Attorney Fee - Review Work Form 387	\$1,000.00	\$1,000.00	Attorney Fees associated with reviewing FCC Form 387 for KOTV.	\$774.00
Attorney Fee - Repack Planning	\$500.00	\$500.00	Attorney fees for planning of repack efforts	\$212.00
Attorney Fee - FCC Filing Fee	\$1,070.00	\$1,070.00	FCC Filing Fees - KOTV Repack - Attorney fees	\$0.00
MVPD Notification of Channel Change	\$750.00	\$750.00	Please see attached MVPD Notification Quote.	\$750.00
Develop and air announcement of upcoming channel change	\$43,000.00	\$43,000.00	Cost estimates associated with outsourcing the production of the viewer announcements for the upcoming channel change. Refer to KOTV GMSRepackRescanEstimate. pdf in the attachments.	\$0.00

Temporary Authorization request DTV Medical Facility Notification	\$11,550.00	\$2,755.00	N/A	\$2,755.00
Fees - Form 2100 minor change CP application FCC Filing Fees - Special	\$195.00	\$190.00	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application FCC Filing	\$335.00 \$1,110.00	\$325.00 \$1,070.00	N/A N/A	N/A N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$27,000.00	\$27,000.00	Existing transmitter removal and fluid recovery. Remove and dispose of existing main and auxiliary antennas and transmission line. See attached MARSAND quote 1755.	\$1,950.00

Components

Actual Information	
Description	File Name

Component Description:	Freight for
	components from Change Order
Amount:	Q85380 \$894.18
Component Description: Amount:	FREIGHT \$19,962.24
Component Description:	This project was required to guarantee heavy equipment ingress and egress routes around the structure and to the winch
Amount:	anchor and pad on the SW side of the structure. \$2,950.00
Component Description:	Tower site does not have security cameras. KOTV adding security cameras for security purposes of storing millions of dollars worth of repack at KOTV's building at tower site.
Amount:	\$1,751.89
	Component Description: Amount: Component Description: Amount:

Component Description:	Web sling for lifting heavy equipment. Initial charge was 73.74, refund of 15.18 for items not used. Reimbursement request for 58.56 \$58.56
Component Description: Amount:	Forklift Rental \$863.37
Component Description:	The Tractor Supply expense is for a tank to prepare the 50% water and glycol solution. The glycol arrived in concentrated form. \$99.99
Component Description:	The Lowes expense is for a portable table saw to create the fixtures necessary to accurately mark and penetrate the wall for the concrete cutting contractors. \$295.12
Component Description:	Heavy Load Lifting Straps to move around new tx cabinets into place for install.
Amount:	\$77.16

Component Description:	Equipment necessar for construction of the channel grid to
Amount:	support the coolant hoses for new transmitter. \$27.38
Component Description: Amount:	Equipment necessar for construction of the channel grid to support the coolant hoses for new transmitter. \$16.24
Component Description:	Dolly equipment. Initial charge 180.09, returned items not used at a refund of 115.01. Charges requested for reimbursement equal 65.08. \$65.08
Component Description: Amount:	To receive in equipment and move around parts for install a pallet jack was required to be purchased. \$301.12
Component Description:	Equipment necessar for construction of the channel grid to support the coolant hoses for new transmitter.
Amount:	\$287.67

	Component Description:	Equipment necessar for construction of the channel grid to support the coolant hoses for new transmitter. \$201.61
	Component Description: Amount:	Gantry Crane and components required to lift trasnmitter equipment into place at site. Less Gift Card \$1,026.21
	Component Description:	Equipment necessar for construction of the channel grid to support the coolant hoses for new transmitter. \$162.28
Site Prep - TX Space	Component Description: Amount:	Drywall and wall construction around new KOTV-DT CH26 Transmitter. \$3,739.60
	Component Description: Amount:	Wall prep and paint. \$140.86
	Component Description: Amount:	Site prep \$5.54
	Component Description: Amount:	Wall prep and paint. \$80.16

Site Prep Electrical		
	Component Description:	Relocation of
		Conduit Feeding
		Power to Equiment
		Rack.
	Amount:	\$1,400.00
Main Antenna - RFreight		
	Component Description:	Main Antenna
		Freight, Shipping,
		and Handling - 2/3
		Prior to Ship invoice
		amount as per
		invoice line item 32
	Amount:	\$7,364.94
	Component Description:	Main Antenna
		Freight, Shipping,
		and Handling - 1/3
		ARO invoice amount
		as per invoice line
		item 32 - SO 827002
		KOTV Invoice
		MAN00153.pdf
	Amount:	\$7,364.94

Aux Antenna - RFreight		
	Component Description:	Aux Antenna Freight, Shipping, and Handling - 2/3 Prior to Ship invoice amount as per invoice line item 30
	Amount:	\$3,193.74
	Component Description:	Aux Antenna Freight, Shipping, and Handling - 1/3 ARO invoice amount as per invoice line item 30 - SO 827002 KOTV Invoice MAN00153.pdf \$3,193.74

Attorney Fee - Review Work		
Form 387	Component Description:	Review KOTV Form 387
	Amount:	\$100.00
	Component Description:	Review draft FCC Form 387 Quarterly transistion progress
	Amount:	report. \$265.00
	Component Description:	Review draft form 387 transition progress report.
	Amount:	\$106.00
	Component Description:	Work on KOTV FCC Form 387 quarterly filing.
	Amount:	\$106.00
	Component Description:	Review draft KOTV schedule 387 3Q 2017 report.
	Amount:	\$97.00
	Component Description:	Work on KOTV FCC Form 387 quarterly filing.
	Amount:	\$100.00
Attorney Fee - Repack Planning		
	Component Description:	Telephone conference with Trevor and Don regarding KOTV Phase 9 Repac
		planning.

Attorney Fee - FCC Filing Fee	Component Description: Amount:	KOTV Repack FCC Filing Fees - Attorney Fees \$1,070.00
MVPD Notification of Channel Change	Component Description: Amount:	Required MVPD Channel Change Notice. \$750.00
Develop and air announcement of upcoming channel change	Information not provided.	

Disposal Costs (for		
equipment and other waste, net of any salvage value)	Component Description:	The Harley Hollan expenses are for
		debris removal
	Amount:	\$390.00
	Component Description:	Onsite construction / scrap dumpster.
	Amount:	\$390.00
	Component Description:	The Harley Hollan
		expenses are for
	Amount:	debris removal \$390.00
	Amount.	φ330.00
	Component Description:	The Harley Hollan
		expenses are for
		debris removal
	Amount:	\$390.00
	Component Description:	12 YARD DELIVERY
	••••••••••••••••••••••••••••••	- receipt for the
		dumpster for
		unpacking and
		placing the new transmitter for KOTV-
		DT FIN: 35434
	Amount:	\$390.00
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization	Information not provided.	

DTV Medical Facility		
Notification	Component Description:	Required DTV
		Medical Channel
		Change Notifications
	Amount:	\$2,755.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,868,375.85	\$4,086,474.85	\$2,190,830.80

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		 The Authorized Person signing below certifies that he/she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above- named entity. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	Trevor Wiseman VP of Technology 02/13/2020

Attachments