Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **35670** | Service: **DTV** | Call Sign: **KTLA** | Channel: **35 (UHF)**

File Number: **0000027879**

FRN: **0005047105** | Date Submitted: **03/12/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Tribune Media Company Doing Business As: KTLA, LLC	David Cox 5800 Sunset Boulevard Los Angeles, CA 90028 United States	+1 (323) 460-5500	David.Cox@ktla.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
Bill Vanduynhoven , Vanduynhov . *Sr Director of Engineering RF Systems* *Nexstar Broadcasting*	Bill Vanduynhoven 2211 Rabbit Hill Cir Dacula, GA 30019 United States	+1 (404) 312-8693	bvanduynhoven@nexstar.tv

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	New antenna and transmission line Replace transmitter and RF system Re-tune backup transmitter (2) Replace Backup Combiner

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	Harris
	Model	DVA9000A
	Year	2005

	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	9 kW

Auxiliary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	Other
	Other Power	18 kW
New Exciter	Is a new exciter needed?	No

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A

	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Retuning	Re-tune mask filter with Proof

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	Harris
	Model	UAX-2000
	Year	2010
	Type	Solid State

	Solid State Cooling	Air Cooled
	Solid State Power capacity	2 kW

Auxiliary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	10 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A

Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Contract Managemant	Wireless infrastructure will manage the project for KTLA

Primary Transmitter

Add 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?	No
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCX-2
	Year	1998
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 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	UXLT-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	52 kW
	Justification for New Transmitter	Pre-transition transmitter can not be re-tuned per Manufacturer. Replacement transmitter installed in 2015. New RF system required for channel change. Comparable current model ULXTE-90

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A

	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Electrical Panels for new Transmitter
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	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 Transmitter

Other Transmitter Cost Not Listed

Name	Description
Ice Shield	Ice Shield over cooling system
Disposal	Dispose of materials
RF System	Channel 35 RF system and installation

Antennas

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

Auxiliary Antenna

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Leased
	Owner	KCBS
	Site	N/A
	Is this antenna currently shared with any other stations?	Yes
	Is this antenna directional?	Yes
	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
	Type	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	4
	Design power capacity in use	80.0 %
	Lower Limit	500.00 MHz

Upper Limit	625.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	75.0 kW
Manufacturer	Dielectric
Model	TAU-C2-8 /16-1
Year	2009

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
47906	KNBC
9628	KCBS-TV

Auxiliary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Auxiliary 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	3
	Frequencies of channels supported	RF channel
	Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
36
31
35

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary and Temp
	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	Elliptical
	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-12DSC /CP-R CT170SP
	Year	1998

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Standby
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	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)	500.0 kW
	Manufacturer	
	Model	TFU-12DSC

		/CP-R
	Year	1998
	Justification for New Antenna	Single channel antenna will not work on Ch 35

Auxiliary 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?	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?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

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	Elliptical
	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)	1000.0 kW

	Manufacturer	
	Model	TFU-28DSC /VP-R CT170SP
	Year	2003

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?	No
	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	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)	1000.0 kW
	Manufacturer	
	Model	TFU-27ETT

		/VP-R CT140
	Year	2018
	Justification for New Antenna	Current antenna will only work on Ch 31 Change to Top mount to reduce overall costs Quotes attached

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?	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	No

	high or medium power antenna?	
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Mount	Tower interface Bury Mount

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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	465 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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	374 feet per run
	Justification for New Transmission Line	Exiting will remain in SVS feeding existing antenna to not disrupt the viewers. Adding temp line would not be cost effective.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

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	Owned
	Is this tower consider Complex?	Terrain Constrained
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1053804
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	34° 13' 36.0" N-
	Longitude (NAD83)	118° 03' 59.0" W-
	Overall Structure Height	475.72 feet
	Support Structure Height	412.72 feet
	Ground Elevation Above Mean Sea Level (AMSL)	5698.75 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	KTLA, LLC
	Date Constructed	09/01/1988

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:	No 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
Study Multiple	Additional tower study's to find a solution

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	800
	Explanation	Coordination of Activities on Mt Wilson that is remote from KTLA studio requires a professions svs contractor
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	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	No
	For Auxiliary Facility	N/A

	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	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	No
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Information 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	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?	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

Name	Description
State Taxes	California State Taxes

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 UXLT-60	**$2,225,950.00**	**$1,421,644.00**		**$1,396,195.45**	
RF System	*$321,000.00*	$321,000.00	N/A	$320,412.06	N/A
Disposal	*$5,580.00*	$5,580.00	N/A	N/A	N/A
Ice Shield	*$9,980.00*	$9,980.00	N/A	$0.00	N/A
Other -- HVAC Service Type: C Size:20 (Other)	*$25,000.00*	$25,000.00	N/A	$15,700.00	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	$1,788,000.00	$983,694.00	N/A	$983,693.39	N/A
Other Electrical Service: Electrical Panels for new Transmitter	*$76,390.00*	$76,390.00	N/A	$76,390.00	N/A
Auxiliary Transmitter DVA9000A	**$117,200.00**	**$67,000.00**		**$11,848.25**	
UHF and VHF - minor banding issues	$105,200.00	$55,000.00	N/A	$11,848.25	N/A
Retuning	*$12,000.00*	$12,000.00	N/A	N/A	N/A

Other 18 kW mask filter	***$0.00***	$0.00	N/A	N/A	N/A
Auxiliary Transmitter UAX-2000	**$134,699.00**	**$84,089.00**		**$73,062.84**	
Contract Managemant	***$21,189.00***	$21,189.00	N/A	$21,189.00	N/A
10 kW mask filter	$8,310.00	$7,900.00	N/A	N/A	N/A
UHF and VHF - minor banding issues	$105,200.00	$55,000.00	N/A	$51,873.84	N/A
Sub-total	$2,477,849.00	$1,572,733.00	N/A	$1,481,106.54	N/A
Total for all systems	$3,985,552.50	$2,767,020.44	N/A	$2,323,790.42	N/A

Components

Actual Information Description	File Name
RF System	**Component Description:** channel change Primary **Amount:** $96,067.86 **Component Description:** Installation, proof and freight **Amount:** $66,561.91 **Component Description:** channel change Primary **Amount:** $53,128.32 **Component Description:** channel change Primary **Amount:** $104,653.97

Disposal	Information not provided.	
Ice Shield	Information not provided.	
Other -- HVAC Service Type: C Size:20 (Other)	**Component Description:** **Amount:**	HVAC work done for new transmitter $15,700.00
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	**Component Description:** **Amount:**	Repack Transmitter installed in 2016 See spread sheet on Attachment $983,693.39
Other Electrical Service: Electrical Panels for new Transmitter	**Component Description:** **Amount:**	Electrical work done for the new transmitter $38,195.00
	Component Description: **Amount:**	Electrical work done for new transmitter $38,195.00
UHF and VHF - minor banding issues	**Component Description:** **Amount:**	third payment - channel change $4,067.70
	Component Description: **Amount:**	second payment - channel change $3,713.87
	Component Description: **Amount:**	deposit for channel change $4,066.68

Retuning	Information not provided.
Other 18 kW mask filter	Information not provided.
Contract Managemant	**Component Description:** Project Management **Amount:** $10,594.50 **Component Description:** Project Management **Amount:** $10,594.50
10 kW mask filter	Information not provided.
UHF and VHF - minor banding issues	**Component Description:** channel change Aux **Amount:** $18,239.04 **Component Description:** channel change Aux **Amount:** $431.19 **Component Description:** channel change Aux **Amount:** $17,354.63 **Component Description:** channel change Aux **Amount:** $15,848.98

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-27ETT /VP-R CT140	**$378,138.00**	**$347,177.74**		**$346,537.74**	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$11,906.00	Quote price	$11,906.00	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$5,760.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$259,263.74	N/A	$259,263.74	N/A
Mount	*$69,608.00*	$69,608.00	Quote attached	$69,608.00	N/A
Auxiliary Antenna TFU-12DSC /CP-R	**$177,837.50**	**$175,507.50**		**$171,791.00**	
Elbow complex, single	$12,300.00	$10,300.00	N/A	$10,297.50	N/A

channel, at antenna input, per 6 1/8. feedline (if needed)					
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$5,760.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, elliptically or circularly polarized	***$158,807.50***	$158,807.50	N/A	$155,733.50	N/A
Auxiliary Antenna TAU-C2-8 /16-1	**$90,930.00**	**$66,400.00**		**$19,940.74**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	$84,200.00	$60,000.00	N/A	$19,940.74	N/A
Sub-total	$646,905.50	$589,085.24	N/A	$538,269.48	N/A
Total for all systems	$3,985,552.50	$2,767,020.44	N/A	$2,323,790.42	N/A

Components

Actual Information Description	File Name

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	Input complex $5,357.70
	Component Description: **Amount:**	INPUT COMPLEX $5,357.70
	Component Description: **Amount:**	3rd payment - input complex $1,190.60
Sweep test of existing antenna	**Component Description:** **Amount:**	SWEEP TEST $2,880.00
	Component Description: **Amount:**	SWEEP TEST $2,880.00
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	VPOL $13,128.75
	Component Description: **Amount:**	LINE 1 OF INVOICE $4,633.87
	Component Description: **Amount:**	LINE 1 OF INVOICE $4,633.87
	Component Description: **Amount:**	PRIMARY ANTENNA $99,370.35

	Component Description:	PRIMARY ANTENNA
	Amount:	$99,370.35
	Component Description:	3rd payment VPOL
	Amount:	$2,917.50
	Component Description:	VPOL
	Amount:	$13,128.75
	Component Description:	3rd payment on ANT TFU-27-ETT /VP-R C140
	Amount:	$22,080.30
Mount		
	Component Description:	BURY/WEDDING CAKE
	Amount:	$31,323.60
	Component Description:	3rd payment - Wedding Cake adapter
	Amount:	$6,960.80
	Component Description:	BURY/WEDDING CAKE
	Amount:	$31,323.60
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)		
	Component Description:	ELBOW COMPLEX
	Amount:	$4,633.88
	Component Description:	ELBOW COMPLEX
	Amount:	$4,633.88

	Component Description:	last 10% of elbow complex
	Amount:	$1,029.74
Sweep test of existing antenna	**Component Description:**	SWEEP TEST
	Amount:	$2,880.00
	Component Description:	SWEEP TEST
	Amount:	$2,880.00
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, elliptically or circularly polarized	**Component Description:**	TFU-12DSC/VP-R
	Amount:	$65,253.37
	Component Description:	VPOL
	Amount:	$6,210.00
	Component Description:	TFU-12DSC/VP-R
	Amount:	$65,253.37
	Component Description:	VPOL Components
	Amount:	$853.00
	Component Description:	VPOL
	Amount:	$6,210.00
	Component Description:	Antenna - applied to this component because of zero balance invoice.
	Amount:	$9,267.76

	Component Description: **Amount:**	cut pieces need for install lines 2 and 3 of invoice $2,686.00
Sweep test of existing antenna	Information not provided.	
New combiner, cost per channel (without antenna)	**Component Description:** **Amount:**	Our portion of the combiner $19,940.74

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	**$75,548.00**	**$76,529.16**		**$76,529.16**	
Rigid Transmission Line - copper, 6 1/8"	$75,548.00	$76,529.16	see change orders	$76,529.16	N/A
Sub-total	$75,548.00	$76,529.16	N/A	$76,529.16	N/A
Total for all systems	$3,985,552.50	$2,767,020.44	N/A	$2,323,790.42	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** TLSCR'S **Amount:** $2,319.98 **Component Description:** TRANSMISSION LINE **Amount:** $25,306.16 **Component Description:** TRANSMISSION LINE **Amount:** $25,306.16 **Component Description:** 3rd payment - transmission line **Amount:** $5,146.08

Component Description:	cut pieces
Amount:	$3,259.90
Component Description:	cut pieces needed to finish job.
Amount:	$2,604.00
Component Description:	TLSCR'S
Amount:	$2,319.98
Component Description:	cut pieces lines 1 and 2
Amount:	$5,155.50
Component Description:	change order parts - needed to complete job.
Amount:	$5,111.40

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	**$451,100.00**	**$215,800.00**		**$60,700.00**	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$200,000.00	N/A	$60,700.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$12,000.00	N/A	N/A	N/A
Study Multiple	*$3,800.00*	$3,800.00	N/A	N/A	N/A
Sub-total	$451,100.00	$215,800.00	N/A	$60,700.00	N/A
Total for all systems	$3,985,552.50	$2,767,020.44	N/A	$2,323,790.42	N/A

Components

Actual Information Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked	

antennas)	**Component Description:** rigging costs **Amount:** $30,850.00 **Component Description:** rigging costs **Amount:** $29,850.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.
Study Multiple	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	**$169,960.00**	**$150,358.04**		**$109,858.04**	
Project management of the transition	$126,400.00	$109,858.04	N/A	$109,858.04	N/A
RF Exposure Measurements	$21,050.00	$20,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	$4,100.00	$3,000.00	N/A	N/A	N/A
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/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux	$2,105.00	$2,000.00	N/A	N/A	N/A

Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application					
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	$7,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	N/A	N/A
Sub-total	$169,960.00	$150,358.04	N/A	$109,858.04	N/A
Total for all systems	$3,985,552.50	$2,767,020.44	N/A	$2,323,790.42	N/A

Components

Actual Information Description	File Name	
Project management of the transition	**Component Description:** **Amount:**	Project Management $22,174.25

	Component Description: Project Management **Amount:** $34,979.79 **Component Description:** Project Management **Amount:** $13,673.75 **Component Description:** Project Management **Amount:** $39,030.25
RF Exposure Measurements	Information not provided.
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	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	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	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	**$164,190.00**	**$162,515.00**		**$57,327.20**	
State Taxes	***$50,000.00***	$50,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$0.00***	$0.00	N/A	N/A	N/A
Equipment Storage	***$20,000.00***	$20,000.00	N/A	$1,920.00	N/A
Equipment Delivery and Handling Charges	***$51,000.00***	$51,000.00	N/A	$50,157.20	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
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
FCC Filing Fees - Form	$335.00	$325.00	N/A	N/A	N/A

2100 license to cover application					
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$0.00	N/A	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$5,250.00	N/A
Sub-total	$164,190.00	$162,515.00	N/A	$57,327.20	N/A
Total for all systems	$3,985,552.50	$2,767,020.44	N/A	$2,323,790.42	N/A

Components

Actual Information Description	File Name
State Taxes	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	**Component Description:** storage fees **Amount:** $1,920.00
Equipment Delivery and Handling Charges	**Component Description:** Freight, Shipping, and Handling **Amount:** $24,935.64 **Component Description:** Freight and Shipping **Amount:** $1,474.04

	Component Description: **Amount:**	Freight and Shipping $4,952.58
	Component Description: **Amount:**	Freight and Shipping $13,776.75
	Component Description: **Amount:**	Freight and Shipping $5,018.19
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	Medical testing $5,250.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$3,985,552.50	$2,767,020.44	$2,323,790.42

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	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the	

	signal of a broadcaster that changes channels (MVPD). 5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund. 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred. 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Teri Ann Guillory** *Broadcasting Operations* 03/12/2020

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 IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
	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.
8. The above-named entity acknowledges that overpayments or payments in error

	must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Teri Ann Guillory** *Broadcasting Operations* 03/12/2020

Attachments