

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	69692	Service: DTV		KNVO	Channel: 17 (UHF)
ID:			Sign:		
File	000002	8314			
Number:					
FRN: 00	01529627	Date	11/14		
		Submitted:	/2017		

Applicant Name, Type, and Contact Information

Applicant Information

n	Applicant	Address	Phone	Email	Applicant Type
	ENTRAVISION HOLDINGS, LLC	Mark Boelke Suite 6000 West 2425 Olympic Boulevard Santa Monica, CA 90404 United States	+1 (310) 447-3896	mboelke@entravision. com	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information					
Contact Information	Applicant	Address	Phone	Email		
	Samuel Hariton Widelity	4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com		

Broadcaster	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
	Briefly describe transition plan	The plan is for KNVO is to replace the existing Channel 49 system with a new Channel 17 antenna, new 6-1/8" line, and a new transmitter.

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

Primary	Add Transmitter Information				
Transmitter	Section	Question	Response		
	Existing	Type of change	Purchase New		
	Transmitter Description	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	Manufacturer			
	Transmitter Manufacturer and	Model	CD3P2CFAND1150		
	Туре	Year	2005		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	50 kW		

Primary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Primary (Main)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	No			
		Manufacturer				
		Model	ULXTD-100			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	63 kW			
		Justification for New Transmitter	The existing transmitter operates as a main /alternate main transmitter pair. The replacement transmitter is also a main /alternate main.			

Primary Other Transmitter Costs

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

	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	The new main transmitter will require reconfiguration of the electrical service on site. Based on verbal guidance from local electrical contractors, KNVO estimated the electrical work cost.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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
TransmitterOther Transmitter Cost Not ListedInformation not provided.

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

Primary	Existing Antenna Information				
Antenna	Section	Question	Response		
	Existing Antenna Description	Type of change	Purchase New		
		Antenna Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is the existing antenna shared with another station or stations?	Yes		
		Is the existing antenna directional?	Yes		
		Is antenna in operating condition?	Yes		
		Is antenna located on or in close proximity to an antenna farm?	No		
	Existing Antenna	Class	Full Power		
	Manufacturer and Type	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)	1000.0 kW		

Manufacturer	
Model	ATW30H5
Year	2001

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

Facility ID	Call Sign
28280	KTFV-CD

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

Model	TFU-22JSC /VP-R C160
Year	2017
Justification for New Antenna	A new antenna is necessary because the existing antenna cannot be retuned to the new channel and is not capable of broadcasting on channel 17.

Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
Elbow Complex	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?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Other Antenna Cost Not Listed

Antenna Information not provided.

Antenna Section Response New Antenna Description Use Interim Description of Use N/A Change Type Purchase New Ownership Ownership Owner N/A Is antenna shared? No Is antenna shared? No Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Interna position in stack Not in Stack Not in Stack Polarization Horizontal Coaxial Number of Stations Supported N/A Na Uper Limit N/A Na Design power capacity in use N/A Na Uper Limit N/A Design power capacity in use N/A Uper Limit N/A Design power capacity in use N/A Manufacturer M/A Design power capacity in use N/A Manufacturer M/A Design power capacity in use N/A	Interim	New Antenna Costs	ew Antenna Costs		
Description of Use NA Change Type Purchase New Ownership Owned Ownership NA Is antenna shared? Na Is antenna directional? Yes Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Antenna position in stack Not in Stack Not in Stack Polarization National Scavaila Number of Stations Supported NA NA Upper Limit NA Na Design power capacity in use NA NA REP: (Effective Radiated Power) 20.0 kW NA Manufacturer MA NA NA	Antenna	Section	Question	Response	
Change Type Purchase New Ownership Ownerd Owner N/A Is antenna shared? No Is antenna directional? Yes Will antenna be located on or in close proximity to an antenna farm? No Class Full Power Manufacturer and Type Class Not in Stack Polarization Not in Stack Not in Stack Polarization Horizontal Coaxial Type Slotted Coaxial No Iumber of Stations Supported N/A N/A Iuper Limit N/A Na Design power capacity in use N/A NA Other Antenna Type NA NA Identificaturer N/A NA Design power capacity in use N/A NA Identificaturer N/A Identificaturer Identificaturer N/A Identificaturer		New Antenna Description	Use	Interim	
New New Ownership Owned Owner NA Is antenna shared? No Is antenna directional? Yes Will antenna be located on or in close proximity to an antenna farm? No Class Full Power Manufacturer and Type Class Not in Stack Polarization Not in Stack Not in Stack Polarization Horizontal Coxial Type Slotted Coxial No Number of Stations Supported NA NA Upper Limit NA NA Design power capacity in use NA NA ERP: (Effective Radiated Power) 2.0.0 KW Manufacturer Manufacturer Model TU-8WB-			Description of Use	N/A	
Owner N/A Is antenna shared? No Is antenna directional? Yes Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Mounting Side Mount Antenna position in stack Not in Stack Polarization Horizontal Type Slotted Coaxial Number of Stations Supported N/A Number of Panels/Bays N/A Lower Limit N/A Other Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer Wodel TFU-8WB-			Change Type		
Is antenna shared? No Is antenna directional? Yes Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Manufacturer and Type Class Side Mounti Antenna position in stack Not in Stack Not in Stack Polarization Horizontal Horizontal Type Slotted Coaxial Number of Stations Supported N/A N/A Lower Limit N/A N/A Design power capacity in use N/A N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer Manufacturer TFU-8WB- Manufacturer			Ownership	Owned	
Is antenna directional? Yes Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Mounting Side Mount Not in Stack Polarization Not in Stack Not in Stack Polarization Slotted Coaxial Type Slotted Coaxial Number of Stations Supported N/A N/A Lower Limit N/A N/A Oper Limit N/A N/A Design power capacity in use N/A N/A ERP: (Effective Radiated Power) 20.0 kW N/A Manufacturer M/A Manufacturer N/A			Owner	N/A	
Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Mounting Side Mount Side Mount Antenna position in stack Not in Stack Not in Stack Polarization Horizontal Horizontal Type Slotted Coaxial No Number of Stations Supported N/A Lower Limit N/A Other Antenna Type N/A Design power capacity in use N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer Mountal Mounfacturer TFU-8WB-			Is antenna shared?	No	
Image: proximity to an antenna farm? Full Power New Antenna Manufacturer and Type Class Full Power Mounting Side Mount Antenna position in stack Not in Stack Polarization Horizontal Type Slotted Coaxial N/A Number of Stations Supported N/A Lower Limit N/A Upper Limit N/A Other Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer Mountacturer			Is antenna directional?	Yes	
Manufacturer and Type Mounting Side Mount Antenna position in stack Not in Stack Polarization Horizontal Type Slotted Number of Stations Supported N/A Lower Limit N/A Upper Limit N/A Other Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer Model				No	
MountingSide MountAntenna position in stackNot in StackPolarizationHorizontalTypeSlotted CoaxialNumber of Stations SupportedN/ANumber of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AChter Antenna TypeN/AERP: (Effective Radiated Power)20.0 kWMoundacturerModelTFU-8WB-			Class	Full Power	
PolarizationHorizontalTypeSlotted CoaxialNumber of Stations SupportedN/ANumber of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/AERP: (Effective Radiated Power)20.0 kWManufacturerTFU-8WB-		Mounting	Side Mount		
TypeSlotted CoaxialNumber of Stations SupportedN/ANumber of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/AERP: (Effective Radiated Power)20.0 kWManufacturerTFU-8WB-		Antenna position in stack	Not in Stack		
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 Cother Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer Nodel TFU-8WB-		Polarization	Horizontal		
Number of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/AERP: (Effective Radiated Power)20.0 kWManufacturerTFU-8WB-		Туре			
Lower Limit N/A Upper Limit N/A Design power capacity in use N/A Other Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer TFU-8WB-		Number of Stations Supported	N/A		
Upper Limit N/A Design power capacity in use N/A Other Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer TFU-8WB-			Number of Panels/Bays	N/A	
Design power capacity in useN/AOther Antenna TypeN/AERP: (Effective Radiated Power)20.0 kWManufacturerModelTFU-8WB-			Lower Limit	N/A	
Other Antenna Type N/A ERP: (Effective Radiated Power) 20.0 kW Manufacturer TFU-8WB-			Upper Limit	N/A	
ERP: (Effective Radiated Power) 20.0 kW Manufacturer			Design power capacity in use	N/A	
Manufacturer TFU-8WB-			Other Antenna Type	N/A	
Model TFU-8WB-		ERP: (Effective Radiated Power)	20.0 kW		
		Manufacturer			
			Model		
Year 2017			Year	2017	

Justification for New Antenna	Due to
	structural
	limitations,
	KNVO's
	new main
	antenna
	system and
	KNVO's old
	main
	antenna
	system
	cannot both
	be present
	on the
	tower at the
	same time.
	KNVO will
	need to
	broadcast
	using lower
	loading
	antenna
	system
	while the
	old main
	antenna is
	removed.

Interim Other Antenna Costs

Antenna

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	No

InterimOther Antenna Cost Not ListedAntennaInformation not provided.

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

ransmissio	n 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
Existing Transmission Line Manufacturer and Type		Site	N/A
		Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes	
	_	Manufacturer	
		Туре	Waveguid
	Diameter	N/A	
		Other Diameter	N/A
		Segment Length	N/A
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1131 feet per run

Primary Existing Transmission Line

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

Facility ID	Call Sign
28280	KTFV-CD

Primary	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	1131 feet per run	
		Justification for New Transmission Line	KNVO's previous waveguide is not capable of operating on the new channel. A new (different sized) waveguide will need to be installed in order to support the new channel.	

Primary Other Transmission Line Expenses Not Listed

Primary Other Transmission Transmission

Interim	New Transmission Line			
Transmissio	n Section	Question	Response	
	New Transmission Line Costs	Use	Interim	
		Description of Use	N/A	
		Change Type	Purchase New	
		Туре	Flexible Air	
		Diameter	5 inches	
		Segment Length	N/A	
		Other Segment Length		
		Number of parallel runs	1	
		Length	1131 feet per run	
		Justification for New Transmission Line	The interim antenna will need it's own separate transmission line to operate on as the main antenna transmission line will not be installed prior to the interim antenna's activation.	

Interim Other Transmission Line Expenses Not Listed

Transmission hometion not provided.

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

marv	Existing	Tower
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Primary	Existing 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?	No	
		Is this tower currently shared with any other stations?	Yes	
		One or more FM, AM or TV radio broadcaster(s)	Yes	
		Others Types of Users	Yes	
		Is tower documented for structural analysis?	No	
		Is tower compliant with Rev G?	No	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1051020	
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	26° 05' 19.0" N-	
	1983))	Longitude (NAD83)	098° 03' 45.0" W-	
		Overall Structure Height	971.12 feet	
		Support Structure Height	971.12 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	77.10 feet	

Structure Type	TOWER - Free Standing of Guyed Structure
Tower Owner	Entravision - Texas Limited Partnership
Date Constructed	01/01/1997

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
67188	KVLY	FM
28280	KTFV-CD	DTV

Other Types of Users

Users

VTX Comms

Fed Border Pat

49038 KFXV

Primary Tower Modification Costs

Tower

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower

Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed
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Tower Rigging Costs			
Section	Question	Response	
Tower Rigging Costs	Complex Tower	N/A	
•	Are helicopter services required?	No	
	Section	Section Question Tower Rigging Costs Complex Tower Helicopter Services Are helicopter services required?	

Primary Tower	Other Tower Expenses Not Listed		
	Name	Description	
	Structural Analysis	Structural Analysis needed once Mapping complete.	

Outside Professional	Section	Question	Response
	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	712
		Explanation	KNVO does not have sufficient resource capacity and expertise in house to handle all of the reimbursement filing by the Construction Deadline of March 13, 2020. KNVO will hire an outside firm to ensure a timely and well managed transition.
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	Yes
		Quantity	1

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A

Other Professional Services Expenses Not Listed Professional Services roostsided.

Other	Section	Question	Response
Expenses AM Pat Facility Permit Other I	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
Fac Per Oth		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	Yes
		Non-zoning permits	Yes
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	No
		Does this relocation require Equipment Storage?	Yes
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses Not Listed

Expenses Information not provided.

Transmitters

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTD-100	\$1,662,256.44	\$1,661,256.44		\$0.00	
5 Ton system	\$20,250.00	\$19,250.00	N/A	N/A	N/A
Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. Based on verbal guidance from local electrical contractors, KNVO estimated the electrical work cost.	\$30,565.47	\$30,565.47	See attached electrician's quote	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 63 kW	\$1,611,440.97	\$1,611,440.97	See GatesAir quote GA- 00024358 This is for the HPOL TPO	N/A	N/A
Sub-total	\$1,662,256.44	\$1,661,256.44	N/A	\$0.00	N/A
Total for all systems	\$3,227,197.44	\$3,223,676.44	N/A	\$6,634.45	N/A

Components

Antennas

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU- 8WB-1-R C160	\$73,150.00	\$72,000.00		\$0.00	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 20 kW input, directional,, horizontally polarized	\$50,000.00	\$50,000.00	N/A	N/A	N/A
Primary Antenna TFU- 22JSC/VP-R C160	\$204,398.00	\$204,103.00		\$0.00	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A

Elbow complex, single channel, at antenna input, per 6 1 /8. feedline (if needed)	\$12,300.00	\$9,885.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 517 kW input, directional,, elliptically or circularly polarized	\$162,218.00	\$162,218.00	Dielectric Antenna Quote 513317	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$10,000.00	Chuck Britt and Associates Quote	N/A	N/A
Sub-total	\$277,548.00	\$276,103.00	N/A	\$0.00	N/A
Total for all systems	\$3,227,197.44	\$3,223,676.44	N/A	\$6,634.45	N/A

Components

Transmission Line

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$118,755.00	\$113,100.00		\$0.00	
Flexible Air Transmission Line - dielectric, 5"	\$118,755.00	\$113,100.00	N/A	N/A	N/A
Primary Transmission Line	\$228,462.00	\$217,152.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$228,462.00	\$217,152.00	N/A	N/A	N/A
Sub-total	\$347,217.00	\$330,252.00	N/A	\$0.00	N/A
Total for all systems	\$3,227,197.44	\$3,223,676.44	N/A	\$6,634.45	N/A

Components

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).

	Predetermined	Estimated	Estimated Cost	Actual	Actual Cost
Description	Cost Estimate	Cost	Justification	Cost	Justification
Primary Tower TOWER	\$669,800.00	\$696,000.00		\$0.00	
Tall Tower (greater than 500')	\$210,500.00	\$259,000.00	HC Jeffries Tower Rigging Quote	N/A	N/A
Structural Analysis	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$669,800.00	\$696,000.00	N/A	\$0.00	N/A
Total for all systems	\$3,227,197.44	\$3,223,676.44	N/A	\$6,634.45	N/A

Components

Outside Professional Services

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$185,296.00	\$175,550.00		\$6,634.45	
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	N/A	N/A

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	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
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
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$112,496.00	\$106,800.00	N/A	\$6,634.45	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
Sub-total	\$185,296.00	\$175,550.00	N/A	\$6,634.45	N/A
Total for all systems	\$3,227,197.44	\$3,223,676.44	N/A	\$6,634.45	N/A

Components

Actual Information Description	File Name
RF Exposure Measurements	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.
NEPA Section 106 environmental review, if needed	Information not provided.
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	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
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.
Prepare and or review reimbursement form	Information not provided.

Project management of the transition		
	Component Description:	Project
	Amount:	management \$1,128.15
	Amount.	ψ1,120.15
	Component Description:	Project
		management
	Amount:	\$148.20
	Component Description:	Project
		management
	Amount:	\$1,884.20
	Component Description:	Project
		management
	Amount:	\$778.60
	Component Description:	Project
		management
	Amount:	\$971.95
	Component Description:	Project
		management
	Amount:	\$1,723.35
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	

Other Expenses

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$85,080.00	\$84,515.00		\$0.00	
Equipment Storage	\$25,000.00	\$25,000.00	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	\$2,500.00	\$2,500.00	N/A	N/A	N/A
Local Zoning	\$5,000.00	\$5,000.00	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 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$15,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$500.00	\$500.00	N/A	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Sub-total	\$85,080.00	\$84,515.00	N/A	\$0.00	N/A
Total for all systems	\$3,227,197.44	\$3,223,676.44	N/A	\$6,634.45	N/A

Components

Information not provided.

Cost Information	Grand Total				
		Predetermined Cost Estimate	Estimated Cost	Actual Cost	
	Total for all systems	\$3,227,197.44	\$3,223,676.44	\$6,634.45	

Reimbursem	envestialus	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. 	
		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).
- 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Manuel Cavazos , III . EVP - Director of Technology 11/14/2017

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).	
		 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.

payments herein requested.ManuelI declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.Manuel Cavazos , III .III.EVP - Director of Technology	 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 	
an authorized representative of the above- named applicant for the Authorization(s)Cavazos , III .specified above.EVP - Director of		
11/14/2017	an authorized representative of the above- named applicant for the Authorization(s)	Cavazos , III . EVP - Director of Technology

Attachments