

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

			-		
Facility	51991	Service: DTV	Call	WPSD-TV	Channel: 19 (UHF)
ID:			Sign:		
File	000002	7228			
Number:					
FRN: 000)3763927	Date	06/05		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
WPSD-TV, LLC Doing Business As: WPSD-TV, LLC	Richard E. Paxton 201 SOUTH 4TH STREET PADUCAH, KY 42002 United States	+1 (202) 662- 5120	RPAXTON@PAXTONMEDIA. 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	
	Dan Wilson WPSD Chief Engineer WPSD TV, LLC	100 Television Lane Paducah , KY 42003 United States	+1 (270) 415- 1938	dwilson@wpsdlocal6. 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.	No
	Briefly describe transition plan	We will install a DTV 32 aux TX in the existing building feeding a side mount antenna with 4" flex @ 800' level with a ERP of 200 kW. Once the aux is online, we will then remove the main DTV 32 TX and install a new DTV 19 TX that will feed a new antenna

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	CD3200P2- CF		
		Year	2003		
		Туре	Inductive Output Tube		
		IOT Power Type	Two		
		Power Capacity	50 kW		

Existing Transmitter Information

Primary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Primary (Main)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	Yes			
		Manufacturer				
		Model	ULXTE 72			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	47.2 kW			
		Justification for New Transmitter	Our existing DTV channel 32 is not tunable or upgradable to channel 19.			

Primary Other Transmitter Costs

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	Yes
		Transformer (480V)	Yes
		Power	300 kVA
		Rigid Conduit and Wiring	No
		Size	N/A
		Length	N/A

	Other Electrical Service	No
	Other Electrical Service	
	Description	N/A
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 Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	500.0 square feet
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.

Interim	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Interim			
		Description of Use	N/A			
		Change Type	Purchase			
		Manufacturer				
		Model	ULXTE-30			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	20 kW			
		Justification for New Transmitter	We will need a temporary TX to operate on ch. 32 while the new main ch. 19 is installed. The TX building doesn't have space or utilities for 2 main TX's to co- exist. There would be enough space for a small temporary TX.			

Interim Other Transmitter Costs Transmitter Section Qu

Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	50.0 feet
	Other Electrical Service	Yes
	Description	200A disconnect and distribution panel
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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Other Transmitter Cost Not Listed Interim

Transmitter Name

Interim TX Retune	Retune of the Interim ULXTE-30 transmitter to the repack channel 19.

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?	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	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)	906.0 kW	

Manufacturer	
Model	TUV-36GTH /4MR O4
Year	2003

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?	No
		Will antenna be located on or in close proximity to an antenna farm?	No
	New Antenna	Class	Full Power
	Manufacturer and Types	Mounting	Top 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)	679.0 kW
		Manufacturer	
			1

Model	TFU-31JTH /VP-R 04
Year	2017
Justification for New Antenna	Existing DTV 32 antenna is not tunable and is stacked with a NTSC channel 6.

Other Antenna Costs

Primary 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
	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
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Primary Other Antenna Cost Not Listed

Antenna Information not provided.

Interim	New Antenna Costs		
Antenna	Section	Question	Response
	New Antenna Description	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	No
New Antenna Manufacturer and Type		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	Horizontal
	Туре	Broadband Panel	
		Number of Stations Supported	1
		Number of Panels/Bays	8
		Lower Limit	473.00 MHz
		Upper Limit	695.00 MHz
		Design power capacity in use	95.0 %
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	200.0 kW
		Manufacturer	
		Model	TFU-8WB- C160
		Year	2017

Justification for New Antenna	Needed for
	continued
	operation
	on ch. 32
	while the
	existing
	main TX 3
	is removed
	and then
	replaced
	with the
	new ch. 19
	TX. The
	temporary
	TX will be
	retunable t
	ch. 19 and
	then
	afterward
	designated
	as an
	backup TX

C Interim

Antenna

	Other Antenna Costs			
l	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?	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	

Interim Other Antenna Cost Not Listed

Antenna Information not provided.

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

Interim New Transmission Line

Transmission

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	900 feet per run
	New Transmission Line	New Transmission Line CostsUseDescription of UseChange TypeTypeDiameterSegment LengthOther Segment LengthNumber of parallel runs

Justification for New Transmission Line	This line will be needed for the temporary or aux TX and antenna which will be installed
	in the TX building. This TX wi
	be the temporary ch. 32 on
	air while the existing main TX is removed.
	The new ch. 19 can then be installed.

Other Transmission Line Expenses Not Listed Transmission

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?	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	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1042698	
	Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	37° 11' 31.2" N-	
		Longitude (NAD83)	088° 58' 53.2" W-	
		Overall Structure Height	1626.95 feet	
		Support Structure Height	1550.83 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	361.87 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WPSD-TV, LLC
Date Constructed	04/13/2004

Tower Modification Costs

Primary Tower

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:	Serious Reinforcements needed

Primary Tower Rigging Costs

Tower

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

Primary Other Tower Expenses Not Listed

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Tower	Name	Description	
	TCI	Because of weather delays the tower company will not be here until the end of April. the helicopter company Erickson can do the job on March 21-22, 2020 for an additional cost of \$275,280.00. This option would make our FCC permit deadline.	

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	1000
		Explanation	Yes
	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	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	Yes
	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 Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	Yes
		Non-zoning permits	Yes
		BLM or NFS Coordination	Yes
		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?	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
Interim Transmitter ULXTE-30	\$888,181.00	\$746,081.00		\$671,325.09	
UHF inside RF system including switching	\$147,500.00	\$50,000.00	N/A	\$31,435.19	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$650,000.00	N/A	\$613,921.87	N/A
Other Electrical Service: 200A disconnect and distribution panel	\$20,000.00	\$20,000.00	N/A	\$11,900.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$1,300.00	\$1,250.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$15,000.00	N/A	\$4,237.03	N/A
Interim TX Retune	\$9,831.00	\$9,831.00	N/A	\$9,831.00	N/A
Primary Transmitter ULXTE 72	\$1,583,250.00	\$1,434,250.00		\$1,366,990.33	

\$ Ton system \$20,250.00 \$19,250.00 N/A \$6,753.27 N/A Switchgear industrial 800 amp \$38,200.00 \$30,000.00 N/A \$5,602.80 N/A UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW \$1,473,000.00 \$1,350,000.00 N/A \$1,335,329.44 N/A Other Building Addition Size: 500.00 \$1,473,000.00 \$1,350,000.00 N/A \$1,335,329.44 N/A State Transmitter S5 - 50 kW \$1,473,000.00 \$1,350,000.00 N/A \$1,335,329.44 N/A Other Building Addition Size: 500.00 \$1,473,000.00 \$1,350,000.00 N/A \$1,335,329.44 N/A State Passe (XA \$1,473,000.00 \$1,350,000.00 N/A \$1,335,329.44 N/A State State \$1,600.00 \$1,000.00 N/A \$8,631.00 N/A State (XA \$36,800.00 \$20,000.00 N/A \$10,673.82 N/A Sub-total \$2,471,431.00 \$2,180,331.00 N/A \$2,038,315.42 N/A Sub-total \$4,742,355.89 \$3,952,434.89 N/A \$3,667,233.70						
- industrial 800 amp Sindustrial 90 amp Sindustrial 90 amp Sindustrial 91,350,000.00 N/A Sindustrial 91,355,329.44 N/A Liquid Cooled Solid State Transmitter 35 - 50 kW Sindustrial 91,473,000.00 Sindustrial 91,5000.00 N/A Sindustrial 98,631.00 N/A Other Building Addition Size: 500.00 Sindustrial 91,5000.00 Sindustrial 91,5000.00 N/A Sindustrial 98,631.00 N/A Transformer Sybase (480V - 300 KVA Sindustrial 92,000.00 Sindustrial 92,000.00 N/A Sindustrial 91,673.82 N/A Sub-total Sindustrial 92,471,431.00 Sindustrial 93,952,434.89 N/A Sindustrial 93,667,233.70 N/A		\$20,250.00	\$19,250.00	N/A	\$6,753.27	N/A
Liquid Cooled Solid State Transmitter 35 - 50 kW \$15,000.00 \$\N/A \$8,631.00 N/A Other Building Addition Size: 500.00 \$15,000.00 \$\N/A \$8,631.00 N/A Transformer 3 phase (480 v - 300 KVA \$36,800.00 \$20,000.00 \$\N/A \$10,673.82 \$\N/A Sub-total \$2,471,431.00 \$2,180,331.00 \$\N/A \$2,038,315.42 \$\N/A Total for all \$4,742,355.89 \$3,952,434.89 \$\N/A \$3,667,233.70 \$\N/A	- industrial	\$38,200.00	\$30,000.00	N/A	\$5,602.80	N/A
Building Addition Size: 500.0 Size: 500.0 N/A \$10,673.82 N/A Transformer 3 phase /480v - 300 KVA \$36,800.00 \$20,000.00 N/A \$10,673.82 N/A Sub-total \$2,471,431.00 \$2,180,331.00 N/A \$2,038,315.42 N/A Total for all \$4,742,355.89 \$3,952,434.89 N/A \$3,667,233.70 N/A	Liquid Cooled Solid State Transmitter	\$1,473,000.00	\$1,350,000.00	N/A	\$1,335,329.44	N/A
3 phase /480v - 300 KVA \$2,471,431.00 \$2,180,331.00 N/A \$2,038,315.42 N/A Total for all \$4,742,355.89 \$3,952,434.89 N/A \$3,667,233.70 N/A	Building Addition	\$15,000.00	\$15,000.00	N/A	\$8,631.00	N/A
Total for all \$4,742,355.89 \$3,952,434.89 N/A \$3,667,233.70 N/A	3 phase /480v - 300	\$36,800.00	\$20,000.00	N/A	\$10,673.82	N/A
	Sub-total	\$2,471,431.00	\$2,180,331.00	N/A	\$2,038,315.42	N/A
		\$4,742,355.89	\$3,952,434.89	N/A	\$3,667,233.70	N/A

Components

Actual Information	
Description	File Name

UHF inside RF system including switching	Component Description: Amount:	Final payment on RF System for ULXTE-30. \$8,594.81
	Component Description: Amount:	Payment for the Change Order #Q- 79130 for needed RF supplies during the ULXTE- 30 installation. \$3,719.70
	Component Description:	Payment 2 of 3 is due for ULXTE-30
	Amount:	RF equipment before shipping. \$9,238.50
	Component Description: Amount:	Down payment on RF Systems. \$9,882.18
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description:	This invoice is listed in the wrong component
		expense.
	Amount:	N/A
	Amount: Component Description:	Unistrut and PVC Conduit supplies
		Unistrut and PVC

Component Description: Amount:	Conduit and Unistrut supplies for Aux TX install. \$94.76
Component Description: Amount:	Unistrut and conduit for Aux TX install. \$89.35
Component Description: Amount:	Oxygen gas for silver soldering transmission line. \$38.17
Component Description:	Final payment on ULXTE-30 including tax and
Amount:	freight. \$217,030.39
Component Description:	Down payment for ULXTE-30 transmitter and
Amount:	install. \$203,579.43
Component Description:	Payment 2 of 3 due on ULXTE-30 before shipping.
Amount:	\$192,894.66

Other Electrical Service: 200A disconnect and distribution panel	Component Description:	For Electrical services and equipment for Aux		
	Amount:	TX. \$9,520.00		
	Component Description:	Final payment for Aux TX electrical		
	Amount:	installation. \$2,380.00		
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.			
Transformer 3 phase/480v - 150 KVA	Component Description:	Final payment on electrical for the ULXTE-30.		
	Amount:	\$1,314.39		
	Component Description:	Down Payment on KVA transformer.		
	Amount:	\$1,510.30		
	Component Description:	Payment 2 of 3 is due for ULXTE-30 electrical equipment before		
	Amount:	shipping. \$1,412.34		
Interim TX Retune				
	Component Description:	Cost for interim transmitter retune to the post repack channel.		
	Amount:	\$9,831.00		

5 Ton system

Component Description: 5 Ton AC unit equipment and install. \$6,051.00 Amount: **Component Description: Electrical supplies** for AC install. Amount: \$56.20 **Component Description: Electrical supplies** for AC install. Amount: \$132.15 **Component Description: Electrical supplies** for AC install. Amount: \$261.42 **Component Description: Electrical supplies** for AC install. Amount: \$145.92 **Component Description: Electrical supplies** for 5 ton AC install. Amount: \$261.42 **Component Description: Electrical supplies** for 5 ton AC install. Amount: \$145.92 **Component Description: Electrical supplies** for AC install. Amount: \$106.58

Switchgear - industrial 800 amp	Component Description:	Electrical install down payment for
	Amount:	ULXTE-72. \$5,602.80
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	Pre-shipping invoice due for
	Amount:	ULXTE-72 transmitter. \$449,091.25
	Component Description:	ULXTE-72 Transmitter after
	Amount:	delivery \$407,920.21
	Component Description:	Remote control system for ULXTE- 72 Transmitter to
	Amount:	Studio link. \$6,474.00
	Component Description:	Down Payment on ULXTE-72, RF
	Amount:	system and install. \$473,832.98
	Component Description:	Remote control system for ULXTE- 72 and ULXTE-30.
	Amount:	\$4,485.00

Other Building Addition Size: 500.0	Component Description:	Building addition for an Ice Shield and Security fencing for the Aux TX.
	Amount:	\$8,631.00
Transformer 3 phase/480v - 300 KVA	Component Description:	KVA Transformer
	Amount:	\$6,880.97
	Component Description:	Down payment on electrical KVA transformer.
	Amount:	\$3,792.85

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- C160	\$246,609.89	\$56,779.89		\$56,779.89	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	Dielectric says that the repack sweep expense listed on previous invoices was not for the sweep procedure, but was for other expenses.
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized	\$0.00	\$0.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$0.00	N/A	N/A	N/A

UHF – Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized	\$50,379.89	\$50,379.89	***System Notice: Estimate adjusted and locked because line has been superseded.	\$50,379.89	N/A
Primary Antenna TFU-31JTH /VP-R 04	\$308,530.00	\$290,624.00		\$260,595.44	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$13,224.00	Cost of Elbow Complex and Reducer to Transmission Line.	\$12,713.04	An error was made on a 1/26 /2018 expense from Invoice MAN00202 where we added line 4 and 5 to the elbow complex componen These should have beer included ir the antenna componen expense.
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A

Total for all systems	\$4,742,355.89	\$3,952,434.89	N/A	\$3,667,233.70	N/A
Sub-total	\$555,139.89	\$347,403.89	N/A	\$317,375.33	N/A
kW), One station antenna , elliptically or circularly polarized					
UHF - High Power Top Mount (200-1000	\$289,500.00	\$271,000.00	N/A	\$242,122.40	N/A

Actual Information	
Description	File Name

Sweep test of existing antenna	Component Description:	45% Due for RF Sweep Prior to Shipping Aux
	Amount:	Antenna. \$2,880.00
	Component Description:	For Repack Sweep of Aux line
	Amount:	and Antenna. \$640.00
	Component Description:	45% Down payment on RF
	Amount:	sweep. \$2,880.00
	Component Description:	45% Down Payment on RF Sweep of Aux
	Amount:	Antenna. \$2,880.00
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized	Information not provided.	
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Information not provided.	

S /	UHF – Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized	Component Description:	45% Payment Due Prior to Shipping Aux
		Amount:	Antenna. \$20,216.25
		Component Description:	Final payment on antenna.
		Amount:	\$9,828.67
		Component Description:	45% Down Payment on Aux
		Amount:	Antenna. \$20,216.25
		Component Description:	45% Down payment on Aux antenna.
		Amount:	\$20,216.25
		Component Description:	Angle iron metal for Aux Antenna mounting.
		Amount:	\$118.72

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	Tax on Elbow Complex and
	Amount:	Reducer. \$793.44
	Component Description:	Elbow complex fo
	Amount:	antenna. \$4,942.80
	Component Description:	Elbow Complex
	Amount:	and reducer. N/A
	Component Description:	45% Down
		payment on elbov complex and reducers for main
	Amount:	antenna. \$6,976.80
Sweep test of existing		
antenna	Component Description:	Repack sweep fo antenna.
	Amount:	\$2,880.00
	Component Description:	45% Down
		payment on RF sweep test for
	Amount:	main antenna. \$2,880.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Antenna cost less the V-POL option. \$16,674.00
	Component Description:	Main top antenna expense less the vertical
	Amount:	component. \$106,272.00
	Component Description:	Taxes due on antenna less the V-Pol option.
	Amount:	\$13,898.40
	Component Description:	Cut line to connec antenna to the transmission line.
	Amount:	\$1,040.00
	Component Description:	45% Down payment on main
		high power UHF antenna less the \ Pol option.
	Amount:	\$104,238.00

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	\$66,600.00	\$55,000.00		\$52,866.45	
Flexible Air Transmission Line - dielectric, 4"	\$66,600.00	\$55,000.00	N/A	\$52,866.45	The freight part of order #930003 for the RF Line and the order#1504002 RF Line Extension added to the cost.
Sub-total	\$66,600.00	\$55,000.00	N/A	\$52,866.45	N/A
Total for all systems	\$4,742,355.89	\$3,952,434.89	N/A	\$3,667,233.70	N/A

Actual Information	
Description	File Name

Flexible Air Transmission Line - dielectric, 4"	Component Description:	45% Down payment on 4" by 800' aux antenna
	Amount:	flexible line. \$18,950.28
	Component Description: Amount:	45% Down Payment for Flexible Line for Aux Antenna. \$18,950.28
	Component Description:	45% Due for Flexible Line Prior to Shipping
	Amount:	Aux Antenna. \$18,950.28
	Component Description:	This is for the 70 foot Line extension between the tower and building.
	Amount:	\$9,205.89
	Component Description:	Amount due for RF Line.
	Amount:	\$5,760.00

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	\$1,275,100.00	\$1,241,200.00		\$1,229,990.00	
Serious tower reinforcement /modifications	\$1,052,000.00	\$897,620.00	N/A	\$887,770.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$333,580.00	Estimated cost for installing the auxillary and main antenna.	\$333,580.00	The component cost are spread across both serious tower cost and tall tower cost estimates.
Structural engineering tower load study for well documented tower	\$12,600.00	\$10,000.00	N/A	\$8,640.00	N/A
ТСІ	\$0.00	\$0.00	N/A	N/A	N/A
Tower Helicopter Lift	\$0.00	\$0.00		N/A	N/A
Sub-total	\$1,275,100.00	\$1,241,200.00	N/A	\$1,229,990.00	N/A
Total for all systems	\$4,742,355.89	\$3,952,434.89	N/A	\$3,667,233.70	N/A

Actual Information Description	File Name	
Serious tower reinforcement /modifications	Component Description:	Cost related to install of main antenna.
	Amount:	\$1,521.00
	Component Description:	Final payment on project not including change orders.
	Amount:	\$116,753.00
	Component Description:	Change order for 3 weather days during antenna
	Amount:	install. \$9,600.00
	Component Description:	Down payment for severe tall tower mods.
	Amount:	\$419,910.00
	Component Description:	Second payment Due on Tower Mods.
	Amount:	\$251,946.00
	Component Description:	Completion of Phase 1 with a change order for six weather days.
	Amount:	\$88,040.00

Tall Tower (greater than		
500')	Component Description:	Mobilization for
		main top antenna
		install.
	Amount:	\$48,516.00
	Component Description:	Down payment or
		Antenna services,
		tower plumb and
		tension.
	Amount:	\$178,165.00
	Component Description:	Second payment
		due on tower
		antenna services, plumb and
		tension services.
	Amount:	\$106,899.00
Structural engineering tower		
load study for well documented tower	Component Description:	Tall Tower study
aucumentea tower		for repack.
	Amount:	\$8,640.00
TCI	Information not provided.	
Tower Helicopter Lift	Information not provided.	

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	\$322,895.00	\$83,980.00		\$20,396.50	
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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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	\$2,050.00	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 Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,290.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,777.50	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	\$158,000.00	\$20,000.00	N/A	\$17,329.00	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	\$0.00	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	\$0.00	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	\$5,000.00	N/A	\$0.00	N/A

NEPA Section 106 environmental review, if needed	\$6,310.00	\$0.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,680.00	N/A	N/A	N/A
Sub-total	\$322,895.00	\$83,980.00	N/A	\$20,396.50	N/A
Total for all systems	\$4,742,355.89	\$3,952,434.89	N/A	\$3,667,233.70	N/A

Actual Information Description	File Name
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License 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.
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	Component Description:	Preparation for the Form 2100 construction
	Amount:	permit. \$1,290.00
	Component Description:	For preparing engineering section on FCC
	Amount:	Form 2100. \$1,290.00
Perform engineering study for new channel assignment and antenna development	Component Description:	Engineering study for new channel assignment and antenna
	Amount:	development. \$1,777.50
	Component Description:	For engineering studies for new repack channel.
	Amount:	\$1,777.50
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: Amount:	Cost for Site Survey and Line test for Repack. \$17,329.00
	Component Description: Amount:	Cost for site survey and transmission line check for the repack. \$17,329.00
RF Exposure Measurements	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
NEPA Section 106 environmental review, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	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).

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Other Expenses	\$51,190.00	\$44,520.00		\$8,290.00	
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$0.00	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
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$195.00	N/A	N/A	N/A
Local Zoning	\$2,000.00	\$2,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	N/A	\$4,992.00	N/A
MVPD Notification of Channel Change	\$4,000.00	\$4,000.00	N/A	\$3,298.00	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A

Equipment Storage	\$10,000.00	\$10,000.00	Main antenna storage at Dielectric.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$5,000.00	\$5,000.00	N/A	N/A	N/A
BLM or NFS Coordination	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Non-zoning permits	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Sub-total	\$51,190.00	\$44,520.00	N/A	\$8,290.00	N/A
Total for all systems	\$4,742,355.89	\$3,952,434.89	N/A	\$3,667,233.70	N/A

Actual Information Description	File Name	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
Local Zoning	Information not provided.	
DTV Medical Facility Notification	Component Description:Medical Facility notification of frequency and antenna pattern change to the new RF channel.Amount:\$4,992.00	

MVPD Notification of Channel Change	Component Description: Amount:	Notification of Cable Satellite MVPD providers of new channel change. \$3,298.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
BLM or NFS Coordination	Information not provided.	
Non-zoning permits	Information not provided.	

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,742,355.89	\$3,952,434.89	\$3,667,233.70

Reimbursem	entestiatus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	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.	
		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.	Bill Evans Vice President and General Manager 06/05/2020

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).	
		 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).
- 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.	
an ai name	lare, under penalty of perjury, that I am uthorized representative of the above- ed applicant for the Authorization(s) ified above.	Dan Wilson WPSD Chief Engineer 06/05/2020

Attachments

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