



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **51991** | Service: **DTV** | Call **WPSD-TV** | Channel: **19 (UHF)** |
ID: | Sign:
File **0000027228**
Number:
FRN: **0003763927** | Date **04/15**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact 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 Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Dan Wilson <i>WPSD Chief Engineer</i> <i>WPSD TV, LLC</i>	100 Television Lane Paducah , KY 42003 United States	+1 (270) 415- 1938	dwilson@wpsdlocal6. com

**Broadcaster
Information
and
Transition
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	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
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	CD3200P2- CF
	Year	2003
	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	ULXTE 72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50 kW
	Justification for New Transmitter	Our existing DTV channel 32 is not tunable or upgradable to channel 19.

**Primary
Transmitter**

Other Transmitter Costs

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

	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	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 leasehold 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 Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**Interim
Transmitter**

New Transmitter Costs

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
Transmitter**

Other Transmitter Costs

Section	Question	Response
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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
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	906.0 kW

Manufacturer	
Model	TUV-36GTH /4MR O4
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?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top 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)	679.0 kW
	Manufacturer	

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.

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 high or medium power antenna?	No

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	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	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 32 is removed and then replaced with the new ch. 19 TX. The temporary TX will be retunable to ch. 19 and then afterward designated as an backup TX.
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Interim Antenna

Other Antenna Costs

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
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Primary Transmission Line**Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	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	Dielectric
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1650 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Interim Transmission Line

New Transmission Line

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

	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 will be the temporary ch. 32 on air while the existing main TX is removed. The new ch. 19 can then be installed.
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Interim **Other Transmission Line Expenses Not Listed**
Transmission Line Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	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 Registration	Do you have a tower registration number?	Yes
	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

Primary Tower

Tower Modification Costs

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

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	1000
	Explanation	Because of the complexity of our TX site and the age of the tower, we will need severe tower modifications in order to comply with the new G type mods. The last analysis was in 2003 for F type mods. Installing an aux TX will be a needed to stay on air.
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 Services	Prepare and file Form FCC Construction Permit Application	Yes
	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

	Justification	N/A
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Outside Other Professional Services Expenses Not Listed
Professional Services Costs Services 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	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?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses	Other Expenses Not Listed
	Information not provided.

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
Interim Transmitter ULXTE-30	\$878,350.00	\$736,250.00		\$661,494.09	
UHF inside RF system including switching	\$147,500.00	\$50,000.00	N/A	\$31,435.19	N/A
Other Electrical Service: 200A disconnect and distribution panel	<i>\$20,000.00</i>	\$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
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$650,000.00	N/A	\$613,921.87	N/A
Primary Transmitter ULXTE 72	\$1,583,250.00	\$1,434,250.00		\$490,741.83	

Other -- Building Addition Size: 500.0	\$15,000.00	\$15,000.00	N/A	\$8,631.00	N/A
5 Ton system	\$20,250.00	\$19,250.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$20,000.00	N/A	\$3,792.85	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$30,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,350,000.00	N/A	\$478,317.98	N/A
Sub-total	\$2,461,600.00	\$2,170,500.00	N/A	\$1,152,235.92	N/A
Total for all systems	\$4,716,524.89	\$3,919,444.89	N/A	\$2,449,973.56	N/A

Components

Actual Information

Description

File Name

UHF inside RF system including switching	<table> <tr> <td data-bbox="713 174 1023 210">Component Description:</td><td data-bbox="1158 174 1378 405">Payment for the Change Order #Q-79130 for needed RF supplies during the ULXTE-30 installation.</td></tr> <tr> <td data-bbox="713 416 826 452">Amount:</td><td data-bbox="1158 416 1278 452">\$3,719.70</td></tr> <tr> <td data-bbox="713 555 1023 591">Component Description:</td><td data-bbox="1158 555 1362 667">Final payment on RF System for ULXTE-30.</td></tr> <tr> <td data-bbox="713 678 826 714">Amount:</td><td data-bbox="1158 678 1278 714">\$8,594.81</td></tr> <tr> <td data-bbox="713 817 1023 853">Component Description:</td><td data-bbox="1158 817 1374 969">Payment 2 of 3 is due for ULXTE-30 RF equipment before shipping.</td></tr> <tr> <td data-bbox="713 981 826 1016">Amount:</td><td data-bbox="1158 981 1278 1016">\$9,238.50</td></tr> <tr> <td data-bbox="713 1117 1023 1153">Component Description:</td><td data-bbox="1158 1117 1374 1184">Down payment on RF Systems.</td></tr> <tr> <td data-bbox="713 1196 826 1232">Amount:</td><td data-bbox="1158 1196 1278 1232">\$9,882.18</td></tr> </table>	Component Description:	Payment for the Change Order #Q-79130 for needed RF supplies during the ULXTE-30 installation.	Amount:	\$3,719.70	Component Description:	Final payment on RF System for ULXTE-30.	Amount:	\$8,594.81	Component Description:	Payment 2 of 3 is due for ULXTE-30 RF equipment before shipping.	Amount:	\$9,238.50	Component Description:	Down payment on RF Systems.	Amount:	\$9,882.18
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Component Description:	Down payment on RF Systems.																
Amount:	\$9,882.18																
Other Electrical Service: 200A disconnect and distribution panel	<table> <tr> <td data-bbox="713 1361 1023 1397">Component Description:</td><td data-bbox="1158 1361 1374 1514">For Electrical services and equipment for Aux TX.</td></tr> <tr> <td data-bbox="713 1525 826 1561">Amount:</td><td data-bbox="1158 1525 1278 1561">\$9,520.00</td></tr> <tr> <td data-bbox="713 1664 1023 1700">Component Description:</td><td data-bbox="1158 1664 1362 1776">Final payment for Aux TX electrical installation.</td></tr> <tr> <td data-bbox="713 1787 826 1823">Amount:</td><td data-bbox="1158 1787 1278 1823">\$2,380.00</td></tr> </table>	Component Description:	For Electrical services and equipment for Aux TX.	Amount:	\$9,520.00	Component Description:	Final payment for Aux TX electrical installation.	Amount:	\$2,380.00								
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Component Description:	Final payment for Aux TX electrical installation.																
Amount:	\$2,380.00																
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.																

Transformer 3 phase/480v - 150 KVA	<table> <tr> <td data-bbox="719 179 1023 208">Component Description:</td><td data-bbox="1158 179 1374 365">Payment 2 of 3 is due for ULXTE-30 electrical equipment before shipping.</td></tr> <tr> <td data-bbox="719 378 826 407">Amount:</td><td data-bbox="1158 378 1278 407">\$1,412.34</td></tr> <tr> <td data-bbox="719 517 1023 546">Component Description:</td><td data-bbox="1158 517 1362 622">Final payment on electrical for the ULXTE-30.</td></tr> <tr> <td data-bbox="719 636 826 665">Amount:</td><td data-bbox="1158 636 1278 665">\$1,314.39</td></tr> <tr> <td data-bbox="719 775 1023 804">Component Description:</td><td data-bbox="1158 775 1374 842">Down Payment on KVA transformer.</td></tr> <tr> <td data-bbox="719 855 826 884">Amount:</td><td data-bbox="1158 855 1278 884">\$1,510.30</td></tr> </table>	Component Description:	Payment 2 of 3 is due for ULXTE-30 electrical equipment before shipping.	Amount:	\$1,412.34	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				
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Amount:	\$1,510.30																
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<table> <tr> <td data-bbox="719 1025 1023 1055">Component Description:</td><td data-bbox="1158 1025 1362 1131">Conduit and Unistrut supplies for Aux TX install.</td></tr> <tr> <td data-bbox="719 1144 826 1173">Amount:</td><td data-bbox="1158 1144 1241 1173">\$94.76</td></tr> <tr> <td data-bbox="719 1283 1023 1312">Component Description:</td><td data-bbox="1158 1283 1362 1350">Unistrut supplies for Aux TX install.</td></tr> <tr> <td data-bbox="719 1364 826 1393">Amount:</td><td data-bbox="1158 1364 1241 1393">\$50.99</td></tr> <tr> <td data-bbox="719 1503 1023 1532">Component Description:</td><td data-bbox="1158 1503 1374 1612">Unistrut and conduit for Aux TX install.</td></tr> <tr> <td data-bbox="719 1626 826 1655">Amount:</td><td data-bbox="1158 1626 1241 1655">\$89.35</td></tr> <tr> <td data-bbox="719 1765 1023 1794">Component Description:</td><td data-bbox="1158 1765 1374 1910">Down payment for ULXTE-30 transmitter and install.</td></tr> <tr> <td data-bbox="719 1924 826 1953">Amount:</td><td data-bbox="1158 1924 1305 1953">\$203,579.43</td></tr> </table>	Component Description:	Conduit and Unistrut supplies for Aux TX install.	Amount:	\$94.76	Component Description:	Unistrut supplies for Aux TX install.	Amount:	\$50.99	Component Description:	Unistrut and conduit for Aux TX install.	Amount:	\$89.35	Component Description:	Down payment for ULXTE-30 transmitter and install.	Amount:	\$203,579.43
Component Description:	Conduit and Unistrut supplies for Aux TX install.																
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Amount:	\$203,579.43																

	Component Description: Amount:	Oxygen gas for silver soldering transmission line. \$38.17
	Component Description: Amount:	Final payment on ULXTE-30 including tax and freight. \$217,030.39
	Component Description: Amount:	Unistrut and PVC Conduit supplies for Aux TX install. \$144.12
	Component Description: Amount:	Payment 2 of 3 due on ULXTE-30 before shipping. \$192,894.66
Other -- Building Addition Size: 500.0	Component Description: Amount:	Building addition for an Ice Shield and Security fencing for the Aux TX. \$8,631.00
5 Ton system	Information not provided.	
Transformer 3 phase/480v - 300 KVA	Component Description: Amount:	Down payment on electrical KVA transformer. \$3,792.85
Switchgear - industrial 800 amp	Information not provided.	

UHF - Liquid Cooled Solid
State Transmitter 35 - 50 kW

Component Description:

Down Payment on
ULXTE-72, RF
system and install.
\$473,832.98

Amount:

Component Description:

Remote control
system for ULXTE-
72 Transmitter to
Studio link.

Amount:

\$6,474.00

Component Description:

Remote control
system for ULXTE-
72 and ULXTE-30.

Amount:

\$4,485.00

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-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 â€œ Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized	<i>\$0.00</i>	\$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	\$288,400.00		\$114,094.80	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,000.00	N/A	\$6,976.80	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$271,000.00	N/A	\$104,238.00	N/A
Sub-total	\$555,139.89	\$345,179.89	N/A	\$170,874.69	N/A
Total for all systems	\$4,716,524.89	\$3,919,444.89	N/A	\$2,449,973.56	N/A

Components

Actual Information	
Description	File Name
Sweep test of existing antenna	Component Description: For Repack Sweep of Aux line and Antenna.
	Amount: \$640.00
	Component Description: 45% Due for RF Sweep Prior to Shipping Aux Antenna.
	Amount: \$2,880.00
	Component Description: 45% Down Payment on RF Sweep of Aux Antenna.
	Amount: \$2,880.00
	Component Description: 45% Down payment on RF sweep.
	Amount: \$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.

UHF – Broadband Panel, Side Mount Auxiliary/Interim, 200 horizontally polarized	<div> Component Description: Angle iron metal for Aux Antenna mounting. </div> <div> Amount: \$118.72 </div>
	<div> Component Description: 45% Down Payment on Aux Antenna. </div> <div> Amount: \$20,216.25 </div>
	<div> Component Description: Final payment on antenna. </div> <div> Amount: \$9,828.67 </div>
	<div> Component Description: 45% Payment Due Prior to Shipping Aux Antenna. </div> <div> Amount: \$20,216.25 </div>
	<div> Component Description: 45% Down payment on Aux antenna. </div> <div> Amount: \$20,216.25 </div>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<div> Component Description: 45% Down payment on elbow complex and reducers for main antenna. </div> <div> Amount: \$6,976.80 </div>
Sweep test of existing antenna	<div> Component Description: 45% Down payment on RF sweep test for main antenna. </div> <div> Amount: \$2,880.00 </div>

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	45% Down payment on main high power UHF antenna less the V Pol option. \$104,238.00
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Cost
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$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.
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$66,600.00	\$55,000.00	N/A	\$52,866.45	N/A
Total for all systems	\$4,716,524.89	\$3,919,444.89	N/A	\$2,449,973.56	N/A

Components

Actual Information	
Description	File Name

Flexible Air Transmission
Line - dielectric, 4"

Component Description: 45% Due for
Flexible Line
Prior to Shipping
Aux Antenna.
Amount: \$18,950.28

Component Description: Amount due for
RF Line.
Amount: \$5,760.00

Component Description: 45% Down
payment on 4" by
800' aux antenna
flexible line.
Amount: \$18,950.28

Component Description: 45% Down
Payment for
Flexible Line for
Aux Antenna.
Amount: \$18,950.28

Component Description: This is for the 70
foot Line
extension
between the
tower and
building.
Amount: \$9,205.89

Cost
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$1,275,100.00	\$1,242,000.00		\$1,053,600.00	
Serious tower reinforcement /modifications	\$1,052,000.00	\$898,000.00	N/A	\$759,896.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$334,000.00	Estimated cost for installing the auxillary and main antenna.	\$285,064.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$10,000.00	N/A	\$8,640.00	N/A
Sub-total	\$1,275,100.00	\$1,242,000.00	N/A	\$1,053,600.00	N/A
Total for all systems	\$4,716,524.89	\$3,919,444.89	N/A	\$2,449,973.56	N/A

Components

Actual Information Description	File Name
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Serious tower reinforcement /modifications	<div> Component Description: Down payment for severe tall tower mods. Amount: \$419,910.00 </div> <div> Component Description: Completion of Phase 1 with a change order for six weather days. Amount: \$88,040.00 </div> <div> Component Description: Second payment Due on Tower Mods. Amount: \$251,946.00 </div>
Tall Tower (greater than 500')	<div> Component Description: Second payment due on tower antenna services, plumb and tension services. Amount: \$106,899.00 </div> <div> Component Description: Down payment on Antenna services, tower plumb and tension. Amount: \$178,165.00 </div>
Structural engineering tower load study for well documented tower	<div> Component Description: Tall Tower study for repack. Amount: \$8,640.00 </div>

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	\$322,895.00	\$83,250.00		\$20,396.50	
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	\$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	\$3,500.00	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 - 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	\$1,500.00	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
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,777.50	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$0.00	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
Sub-total	\$322,895.00	\$83,250.00	N/A	\$20,396.50	N/A
Total for all systems	\$4,716,524.89	\$3,919,444.89	N/A	\$2,449,973.56	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 - 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	<div> <div> Component Description: </div> <div> Preparation for the Form 2100 construction permit. </div> </div> <div> Amount: </div> <div> \$1,290.00 </div> <div> Component Description: </div> <div> For preparing engineering section on FCC Form 2100. </div> <div> Amount: </div> <div> \$1,290.00 </div>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Perform engineering study for new channel assignment and antenna development	<div> <div> Component Description: Amount: </div> <div> For engineering studies for new repack channel. \$1,777.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> Engineering study for new channel assignment and antenna development. \$1,777.50 </div> </div>
Comprehensive coverage verification via field study, if needed	Information not provided.
Prepare and or review reimbursement form	Information not provided.
Project management of the transition	<div> <div> Component Description: Amount: </div> <div> Cost for site survey and transmission line check for the repack. \$17,329.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Cost for Site Survey and Line test for Repack. \$17,329.00 </div> </div>

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	\$35,190.00	\$23,515.00		\$0.00	
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Local Zoning	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
BLM or NFS Coordination	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
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	\$1,000.00	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
Sub-total	\$35,190.00	\$23,515.00	N/A	\$0.00	N/A
Total for all systems	\$4,716,524.89	\$3,919,444.89	N/A	\$2,449,973.56	N/A

Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,716,524.89	\$3,919,444.89	\$2,449,973.56

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

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

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Bill Evans <i>Vice President and General Manager</i></p> <p>04/15/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Dan Wilson <i>WPSD</i> <i>Chief Engineer</i></p> <p>04/15/2019</p>

Attachments