



(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 **10/29**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WPSD-TV, LLC</b> 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
<b>Dan Wilson</b> <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
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	500.0 square feet
<b>Channel 14 Costs</b>	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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<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Inside RF System</b>	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
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

<b>Sweep Test</b>	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
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	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
<b>Services Costs Outside Project Management Services</b>	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.
<b>Outside RF consulting Engineering Services</b>	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
<b>Attorney and Other Outside Consulting Services</b>	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
<b>RF Field Engineering Services</b>	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 Professional Services Costs**      **Other Professional Services Expenses Not Listed**  
Services provided.



## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	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

<b>Other Expenses</b>	<b>Other Expenses Not Listed</b> Information not provided.
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## 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
<b>Interim Transmitter ULXTE-30</b>	<b>\$878,350.00</b>	<b>\$736,250.00</b>		<b>\$661,494.09</b>	
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
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$15,000.00	N/A	\$4,237.03	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
<b>Primary Transmitter ULXTE 72</b>	<b>\$1,583,250.00</b>	<b>\$1,434,250.00</b>		<b>\$482,110.83</b>	

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,350,000.00	N/A	\$478,317.98	N/A
Other -- Building Addition Size: 500.0	<b>\$15,000.00</b>	\$15,000.00	N/A	N/A	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
<b>Sub-total</b>	\$2,461,600.00	\$2,170,500.00	N/A	\$1,143,604.92	N/A
<b>Total for all systems</b>	\$4,716,524.89	\$3,914,444.89	N/A	\$2,434,942.56	N/A

## Components

### Actual Information

Description

File Name

UHF inside RF system including switching	<table> <tr> <td data-bbox="719 179 1023 208"><b>Component Description:</b></td><td data-bbox="1160 179 1378 405">Payment for the Change Order #Q-79130 for needed RF supplies during the ULXTE-30 installation.</td></tr> <tr> <td data-bbox="719 421 826 450"><b>Amount:</b></td><td data-bbox="1160 421 1278 450">\$3,719.70</td></tr> <tr> <td data-bbox="719 560 1023 589"><b>Component Description:</b></td><td data-bbox="1160 560 1362 667">Final payment on RF System for ULXTE-30.</td></tr> <tr> <td data-bbox="719 683 826 712"><b>Amount:</b></td><td data-bbox="1160 683 1278 712">\$8,594.81</td></tr> <tr> <td data-bbox="719 822 1023 851"><b>Component Description:</b></td><td data-bbox="1160 822 1370 889">Down payment on RF Systems.</td></tr> <tr> <td data-bbox="719 904 826 934"><b>Amount:</b></td><td data-bbox="1160 904 1278 934">\$9,882.18</td></tr> <tr> <td data-bbox="719 1043 1023 1072"><b>Component Description:</b></td><td data-bbox="1160 1043 1370 1184">Payment 2 of 3 is due for ULXTE-30 RF equipment before shipping.</td></tr> <tr> <td data-bbox="719 1200 826 1229"><b>Amount:</b></td><td data-bbox="1160 1200 1278 1229">\$9,238.50</td></tr> </table>	<b>Component Description:</b>	Payment for the Change Order #Q-79130 for needed RF supplies during the ULXTE-30 installation.	<b>Amount:</b>	\$3,719.70	<b>Component Description:</b>	Final payment on RF System for ULXTE-30.	<b>Amount:</b>	\$8,594.81	<b>Component Description:</b>	Down payment on RF Systems.	<b>Amount:</b>	\$9,882.18	<b>Component Description:</b>	Payment 2 of 3 is due for ULXTE-30 RF equipment before shipping.	<b>Amount:</b>	\$9,238.50
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<b>Amount:</b>	\$9,238.50																
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<table> <tr> <td data-bbox="719 1368 1023 1397"><b>Component Description:</b></td><td data-bbox="1160 1368 1362 1476">Unistrut and PVC Conduit supplies for Aux TX install.</td></tr> <tr> <td data-bbox="719 1491 826 1520"><b>Amount:</b></td><td data-bbox="1160 1491 1257 1520">\$144.12</td></tr> <tr> <td data-bbox="719 1630 1023 1659"><b>Component Description:</b></td><td data-bbox="1160 1630 1378 1738">Unistrut and conduit for Aux TX install.</td></tr> <tr> <td data-bbox="719 1753 826 1783"><b>Amount:</b></td><td data-bbox="1160 1753 1241 1783">\$89.35</td></tr> <tr> <td data-bbox="719 1892 1023 1921"><b>Component Description:</b></td><td data-bbox="1160 1892 1362 2000">Conduit and Unistrut supplies for Aux TX install.</td></tr> <tr> <td data-bbox="719 2016 826 2045"><b>Amount:</b></td><td data-bbox="1160 2016 1241 2045">\$94.76</td></tr> </table>	<b>Component Description:</b>	Unistrut and PVC Conduit supplies for Aux TX install.	<b>Amount:</b>	\$144.12	<b>Component Description:</b>	Unistrut and conduit for Aux TX install.	<b>Amount:</b>	\$89.35	<b>Component Description:</b>	Conduit and Unistrut supplies for Aux TX install.	<b>Amount:</b>	\$94.76				
<b>Component Description:</b>	Unistrut and PVC Conduit supplies for Aux TX install.																
<b>Amount:</b>	\$144.12																
<b>Component Description:</b>	Unistrut and conduit for Aux TX install.																
<b>Amount:</b>	\$89.35																
<b>Component Description:</b>	Conduit and Unistrut supplies for Aux TX install.																
<b>Amount:</b>	\$94.76																

<b>Component Description:</b>	Unistrut supplies for Aux TX install.
<b>Amount:</b>	\$50.99

<b>Component Description:</b>	Final payment on ULXTE-30 including tax and freight.
<b>Amount:</b>	\$217,030.39

<b>Component Description:</b>	Down payment for ULXTE-30 transmitter and install.
<b>Amount:</b>	\$203,579.43

<b>Component Description:</b>	Oxygen gas for silver soldering transmission line.
<b>Amount:</b>	\$38.17

<b>Component Description:</b>	Payment 2 of 3 due on ULXTE-30 before shipping.
<b>Amount:</b>	\$192,894.66

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

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<table> <tr> <td data-bbox="713 174 1023 208"><b>Component Description:</b></td><td data-bbox="1158 174 1382 286">Remote control system for ULXTE-72 and ULXTE-30.</td></tr> <tr> <td data-bbox="713 297 826 331"><b>Amount:</b></td><td data-bbox="1158 297 1278 331">\$4,485.00</td></tr> <tr> <td data-bbox="713 439 1023 472"><b>Component Description:</b></td><td data-bbox="1158 439 1382 584">Remote control system for ULXTE-72 Transmitter to Studio link.</td></tr> <tr> <td data-bbox="713 595 826 629"><b>Amount:</b></td><td data-bbox="1158 595 1278 629">\$6,474.00</td></tr> <tr> <td data-bbox="713 736 1023 770"><b>Component Description:</b></td><td data-bbox="1158 736 1382 848">Down Payment on ULXTE-72, RF system and install.</td></tr> <tr> <td data-bbox="713 860 826 893"><b>Amount:</b></td><td data-bbox="1158 860 1307 893">\$473,832.98</td></tr> </table>	<b>Component Description:</b>	Remote control system for ULXTE-72 and ULXTE-30.	<b>Amount:</b>	\$4,485.00	<b>Component Description:</b>	Remote control system for ULXTE-72 Transmitter to Studio link.	<b>Amount:</b>	\$6,474.00	<b>Component Description:</b>	Down Payment on ULXTE-72, RF system and install.	<b>Amount:</b>	\$473,832.98
<b>Component Description:</b>	Remote control system for ULXTE-72 and ULXTE-30.												
<b>Amount:</b>	\$4,485.00												
<b>Component Description:</b>	Remote control system for ULXTE-72 Transmitter to Studio link.												
<b>Amount:</b>	\$6,474.00												
<b>Component Description:</b>	Down Payment on ULXTE-72, RF system and install.												
<b>Amount:</b>	\$473,832.98												
Other -- Building Addition Size: 500.0	Information not provided.												
5 Ton system	Information not provided.												
Transformer 3 phase/480v - 300 KVA	<table> <tr> <td data-bbox="713 1211 1023 1245"><b>Component Description:</b></td><td data-bbox="1158 1211 1382 1323">Down payment on electrical KVA transformer.</td></tr> <tr> <td data-bbox="713 1335 826 1368"><b>Amount:</b></td><td data-bbox="1158 1335 1278 1368">\$3,792.85</td></tr> </table>	<b>Component Description:</b>	Down payment on electrical KVA transformer.	<b>Amount:</b>	\$3,792.85								
<b>Component Description:</b>	Down payment on electrical KVA transformer.												
<b>Amount:</b>	\$3,792.85												
Switchgear - industrial 800 amp	Information not provided.												



## 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
<b>Interim Antenna TFU-8WB-C160</b>	<b>\$246,609.89</b>	<b>\$56,779.89</b>		<b>\$56,139.89</b>	
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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A
UHF – Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized	<b><i>\$50,379.89</i></b>	\$50,379.89	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$50,379.89	N/A

<b>Primary Antenna TFU-31JTH /VP-R 04</b>	<b>\$308,530.00</b>	<b>\$288,400.00</b>		<b>\$114,094.80</b>	
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
<b>Sub-total</b>	<b>\$555,139.89</b>	<b>\$345,179.89</b>	<b>N/A</b>	<b>\$170,234.69</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$4,716,524.89</b>	<b>\$3,914,444.89</b>	<b>N/A</b>	<b>\$2,434,942.56</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
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.

Sweep test of existing antenna

**Component Description:** 45% Down payment on RF sweep.  
**Amount:** \$2,880.00

**Component Description:** 45% Down Payment on RF Sweep of Aux Antenna.  
**Amount:** \$2,880.00

**Component Description:** 45% Due for RF Sweep Prior to Shipping Aux Antenna.  
**Amount:** \$2,880.00

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

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>  <b>Amount:</b>	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	\$50,000.00		\$47,106.45	
Flexible Air Transmission Line - dielectric, 4"	\$66,600.00	\$50,000.00	N/A	\$47,106.45	N/A
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$66,600.00	\$50,000.00	N/A	\$47,106.45	N/A
Total for all systems	\$4,716,524.89	\$3,914,444.89	N/A	\$2,434,942.56	N/A

Components

Actual Information	
Description	File Name

Flexible Air Transmission  
Line - dielectric, 4"

**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:** 45% Due for  
Flexible Line  
Prior to Shipping  
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	\$3,914,444.89	N/A	\$2,434,942.56	N/A

Components

Actual Information	
Description	File Name



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

## 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
<b>Outside Professional Services</b>	<b>\$322,895.00</b>	<b>\$83,250.00</b>		<b>\$20,396.50</b>	
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	\$3,500.00	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
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
<b>Sub-total</b>	\$322,895.00	\$83,250.00	N/A	\$20,396.50	N/A
<b>Total for all systems</b>	\$4,716,524.89	\$3,914,444.89	N/A	\$2,434,942.56	N/A

## Components

Actual Information	
Description	File Name
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.
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	<table> <tr> <td data-bbox="703 98 1023 322"><b>Component Description:</b></td><td data-bbox="1023 98 1426 322">For preparing engineering section on FCC Form 2100.</td></tr> <tr> <td data-bbox="703 322 1023 434"><b>Amount:</b></td><td data-bbox="1023 322 1426 434">\$1,290.00</td></tr> <tr> <td data-bbox="703 434 1023 658"><b>Component Description:</b></td><td data-bbox="1023 434 1426 658">Preparation for the Form 2100 construction permit.</td></tr> <tr> <td data-bbox="703 658 1023 725"><b>Amount:</b></td><td data-bbox="1023 658 1426 725">\$1,290.00</td></tr> </table>	<b>Component Description:</b>	For preparing engineering section on FCC Form 2100.	<b>Amount:</b>	\$1,290.00	<b>Component Description:</b>	Preparation for the Form 2100 construction permit.	<b>Amount:</b>	\$1,290.00
<b>Component Description:</b>	For preparing engineering section on FCC Form 2100.								
<b>Amount:</b>	\$1,290.00								
<b>Component Description:</b>	Preparation for the Form 2100 construction permit.								
<b>Amount:</b>	\$1,290.00								
Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="703 725 1023 927"><b>Component Description:</b></td><td data-bbox="1023 725 1426 927">For engineering studies for new repack channel.</td></tr> <tr> <td data-bbox="703 927 1023 1039"><b>Amount:</b></td><td data-bbox="1023 927 1426 1039">\$1,777.50</td></tr> <tr> <td data-bbox="703 1039 1023 1263"><b>Component Description:</b></td><td data-bbox="1023 1039 1426 1263">Engineering study for new channel assignment and antenna development.</td></tr> <tr> <td data-bbox="703 1263 1023 1352"><b>Amount:</b></td><td data-bbox="1023 1263 1426 1352">\$1,777.50</td></tr> </table>	<b>Component Description:</b>	For engineering studies for new repack channel.	<b>Amount:</b>	\$1,777.50	<b>Component Description:</b>	Engineering study for new channel assignment and antenna development.	<b>Amount:</b>	\$1,777.50
<b>Component Description:</b>	For engineering studies for new repack channel.								
<b>Amount:</b>	\$1,777.50								
<b>Component Description:</b>	Engineering study for new channel assignment and antenna development.								
<b>Amount:</b>	\$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	<b>Component Description:</b>	Cost for Site Survey and Line test for Repack.
	<b>Amount:</b>	\$17,329.00
	<b>Component Description:</b>	Cost for site survey and transmission line check for the repack.
	<b>Amount:</b>	\$17,329.00



## 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
<b>Other Expenses</b>	<b>\$35,190.00</b>	<b>\$23,515.00</b>		<b>\$0.00</b>	
Develop and air announcement of upcoming channel change	<i>\$2,000.00</i>	\$2,000.00	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
BLM or NFS Coordination	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Local Zoning	<i>\$2,000.00</i>	\$2,000.00	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
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
MVPD Notification of Channel Change	<b>\$1,000.00</b>	\$1,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$35,190.00	\$23,515.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$4,716,524.89	\$3,914,444.89	N/A	\$2,434,942.56	N/A

## Components

Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$4,716,524.89	\$3,914,444.89
			\$2,434,942.56

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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><b>Bill Evans</b>  <i>Vice  President  and  General  Manager</i></p> <p>10/29/2018</p>

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 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).	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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><b>Dan Wilson</b>  <i>Chief Engineer</i></p> <p>10/29/2018</p>

## Attachments