



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **19190** | Service: **DTV** | Call **WUPW** | Channel: **26 (UHF)** |  
ID: | Sign:  
File **0000024805**  
Number:  
FRN: **0021396460** | Date **07/22**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WUPW LICENSE SUBSIDIARY, LLC</b>	Thomas Henson 2131 AYRSLEY TOWN BLVD. SUITE 300 CHARLOTTE, NC 28273 United States	+1 (704) 643-4148	thenson@ayrsley. 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
The Preparer is same as the reimbursement contact.			

## Broadcaster Information and Transition Plan

Question	Response
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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	Stations existing side mount antenna and line serves as interim. Remove dormant side mount, install new side mount antenna and 4" line. Install new main and backup Transmitters.

## Transmitters

Section	Question	Response
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

## Auxiliary Transmitter

### Add Transmitter Information

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	Harris
	Model	UAX
	Year	2011

	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.1 kW

**Auxiliary  
Transmitter**

**Retuning Transmitter Costs**

Section	Question	Response
<b>New IOT Tubes</b>	Number of Tubes (including accessories) needed	N/A
<b>New Mask Filter</b>	Power	3 kW
	Other Power	N/A
<b>New Exciter</b>	Is a new exciter needed?	No

**Auxiliary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
<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

**Auxiliary  
Transmitter**

**Other Transmitter Cost Not Listed**

Information not provided.

**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	Ultimate
	Year	2003
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	5 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?	No
	Manufacturer	
	Model	ULXTE-8
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	5.2 kW
	Justification for New Transmitter	Existing transmitter can not be retuned

**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	150 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?	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

**Primary Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
Ice Bridge	Ice guard deck over cooling coil

**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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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) .....	110.0 kW

Manufacturer	
Model	TFU- 24DSC-R C170
Year	2002

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?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	65.0 kW
	Manufacturer	

Model	TFU-22DSC /VP-R C170
Year	2019
Justification for New Antenna	Existing Channel 46 antenna can not be retuned. E- Pol premium is not reimbursable

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	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?	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 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?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
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
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1325 feet per run

**Primary**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1325 feet per run
	Justification for New Transmission Line	Existing line to serve as interim.

**Primary**  
**Transmission Line**

**Other Transmission Line Expenses Not Listed**

Information not provided.



**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	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	1012423
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 39' 22.0" N-
	Longitude (NAD83)	083° 26' 41.0" W-
	Overall Structure Height	1252.94 feet
	Support Structure Height	1222.10 feet
	Ground Elevation Above Mean Sea Level (AMSL)	595.47 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WUPW LICENSE SUBSIDIARY, LLC
Date Constructed	08/23/1985

### 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:	Minor 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 Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	Pattern analysis Antenna Spec Transmitter Spec Building drawings Installation Supervision Accounting Internal Legal
<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	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	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	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Engineering Services	Other Engineering Services

## 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	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<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?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
Security	Security service - Security Personnel provided by vendor to the equipment shelter site

## 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>Primary Transmitter ULXTE-8</b>	<b>\$345,733.48</b>	<b>\$321,907.92</b>		<b>\$262,493.63</b>	
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$252,824.44	see Estimated Cost Justification WUPW-110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 4.9-6.5 kW v0	\$251,141.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	\$2,869.15	N/A
Ice Bridge	<b>\$8,483.48</b>	\$8,483.48	Please see H Hansen Quote 14795 and tax as shown on H Hansen invoice 18828	\$8,483.48	N/A
<b>Auxiliary Transmitter UAX</b>	<b>\$109,355.00</b>	<b>\$24,415.42</b>		<b>\$24,415.40</b>	



3 kW mask filter	\$4,155.00	\$0.00	existing filter retuned	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$24,415.42	see Estimated Cost Justification WUPW-150-1st Auxiliary Transmitter - Retune Existing Transmitter, Minor Banding Issues v0	\$24,415.40	N/A
<b>Sub-total</b>	\$455,088.48	\$346,323.34	N/A	\$286,909.03	N/A
<b>Total for all systems</b>	\$1,402,739.48	\$1,357,571.17	N/A	\$880,031.51	N/A

## Components

Actual Information Description	File Name
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UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<b>Component Description:</b> <b>Amount:</b>	ULXTE-8 Transmitter \$42,668.32
	<b>Component Description:</b> <b>Amount:</b>	Transmitter, Mask Filter Saystem, RF Accessories, Electrical \$35,653.37
	<b>Component Description:</b> <b>Amount:</b>	LABOR \$1,434.60
	<b>Component Description:</b> <b>Amount:</b>	LABOR \$659.27
	<b>Component Description:</b> <b>Amount:</b>	Transmitter, Mask Filter Saystem, RF Accessories, Electrical, Installation & Proof \$34,589.49
	<b>Component Description:</b> <b>Amount:</b>	ULXTE-8 \$23,059.66
	<b>Component Description:</b> <b>Amount:</b>	Transmitter, Mask Filter Saystem, RF Accessories, Electrical, Installation & Proof \$113,076.29
Switchgear - industrial 800 amp	Information not provided.	

Transformer 3 phase/480v - 150 KVA	<table> <tr> <td data-bbox="710 100 1141 481"><b>Component Description:</b></td><td data-bbox="1141 100 1428 481">WUPW-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer</td></tr> <tr> <td data-bbox="710 481 1141 548"><b>Amount:</b></td><td data-bbox="1141 481 1428 548">\$746.28</td></tr> <tr> <td data-bbox="710 548 1141 929"><b>Component Description:</b></td><td data-bbox="1141 548 1428 929">1. WUPW-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer</td></tr> <tr> <td data-bbox="710 929 1141 996"><b>Amount:</b></td><td data-bbox="1141 929 1428 996">\$2,122.87</td></tr> </table>	<b>Component Description:</b>	WUPW-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer	<b>Amount:</b>	\$746.28	<b>Component Description:</b>	1. WUPW-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer	<b>Amount:</b>	\$2,122.87								
<b>Component Description:</b>	WUPW-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer																
<b>Amount:</b>	\$746.28																
<b>Component Description:</b>	1. WUPW-110-1st Primary Transmitter - 3 Phase, 480 V, 150 KVA Transformer																
<b>Amount:</b>	\$2,122.87																
Ice Bridge	<table> <tr> <td data-bbox="710 801 1141 996"><b>Component Description:</b></td><td data-bbox="1141 801 1428 996">Labor &amp; Material to fabricate &amp; install</td></tr> <tr> <td data-bbox="710 996 1141 1093"><b>Amount:</b></td><td data-bbox="1141 996 1428 1093">\$8,483.48</td></tr> </table>	<b>Component Description:</b>	Labor & Material to fabricate & install	<b>Amount:</b>	\$8,483.48												
<b>Component Description:</b>	Labor & Material to fabricate & install																
<b>Amount:</b>	\$8,483.48																
3 kW mask filter	Information not provided.																
UHF and VHF - minor banding issues	<table> <tr> <td data-bbox="710 1171 1141 1377"><b>Component Description:</b></td><td data-bbox="1141 1171 1428 1377">Channel Change &amp; Proof</td></tr> <tr> <td data-bbox="710 1377 1141 1444"><b>Amount:</b></td><td data-bbox="1141 1377 1428 1444">\$13,125.27</td></tr> <tr> <td data-bbox="710 1444 1141 1650"><b>Component Description:</b></td><td data-bbox="1141 1444 1428 1650">Channel Change UAX-1000AT</td></tr> <tr> <td data-bbox="710 1650 1141 1718"><b>Amount:</b></td><td data-bbox="1141 1650 1428 1718">\$8,504.73</td></tr> <tr> <td data-bbox="710 1718 1141 1924"><b>Component Description:</b></td><td data-bbox="1141 1718 1428 1924">Channel Change &amp; Proof</td></tr> <tr> <td data-bbox="710 1924 1141 1991"><b>Amount:</b></td><td data-bbox="1141 1924 1428 1991">\$1,671.24</td></tr> <tr> <td data-bbox="710 1991 1141 2074"><b>Component Description:</b></td><td data-bbox="1141 1991 1428 2074">Channel Change UAX-1000AT</td></tr> <tr> <td data-bbox="710 2074 1141 2141"><b>Amount:</b></td><td data-bbox="1141 2074 1428 2141">\$1,114.16</td></tr> </table>	<b>Component Description:</b>	Channel Change & Proof	<b>Amount:</b>	\$13,125.27	<b>Component Description:</b>	Channel Change UAX-1000AT	<b>Amount:</b>	\$8,504.73	<b>Component Description:</b>	Channel Change & Proof	<b>Amount:</b>	\$1,671.24	<b>Component Description:</b>	Channel Change UAX-1000AT	<b>Amount:</b>	\$1,114.16
<b>Component Description:</b>	Channel Change & Proof																
<b>Amount:</b>	\$13,125.27																
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<b>Amount:</b>	\$8,504.73																
<b>Component Description:</b>	Channel Change & Proof																
<b>Amount:</b>	\$1,671.24																
<b>Component Description:</b>	Channel Change UAX-1000AT																
<b>Amount:</b>	\$1,114.16																

**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>Primary Antenna TFU-22DSC /VP-R C170</b>	<b>\$115,090.00</b>	<b>\$216,393.90</b>		<b>\$193,300.90</b>	
UHF - Lower Power Side Mount, One Station antenna . medium power (50- 200 kW), elliptically or circularly polarized	\$103,100.00	\$204,993.90	Quote attached V- Pol premium deducted from estimate; Please see WUPW- 210- Primary Antenna - UHF Lower Power Side Mount, E- POL Estimated Cost Increase Justification Cover Letter v.0	\$186,900.90	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A

Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$115,090.00	\$216,393.90	N/A	\$193,300.90	N/A
<b>Total for all systems</b>	\$1,402,739.48	\$1,357,571.17	N/A	\$880,031.51	N/A

## Components

Actual Information	
Description	File Name
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	<b>Component Description:</b>
	UHF-Lower Power Side Mount
	<b>Amount:</b>
	\$78,342.90
	<b>Component Description:</b>
	Primary Antenna
	<b>Amount:</b>
	\$90,465.00
	<b>Component Description:</b>
	Mount, brackets, elbow complex, transmission line, repack sweep, repack vpol.
	<b>Amount:</b>
	\$18,093.00

Sweep test of existing antenna	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Sweep Test  \$3,200.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Antenna Sweep Test  \$640.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> INCLUDES ONE FIELD ENGINEER ON-SITE FOR ONE DAY  \$2,560.00 </div> </div>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$188,150.00	\$126,195.30		\$126,195.30	
Rigid Transmission Line - copper, 4 1/16"	\$188,150.00	\$126,195.30	see Estimated Cost Justification WUPW-310-Primary Transmission Line - Rigid Copper, 4 1_16 v0	\$126,195.30	N/A
Sub-total	\$188,150.00	\$126,195.30	N/A	\$126,195.30	N/A
Total for all systems	\$1,402,739.48	\$1,357,571.17	N/A	\$880,031.51	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line -  
copper, 4 1/16"

**Component Description:** WUPW-310-  
Primary  
Transmission Line  
- Rigid Copper, 4 1  
/16"

**Amount:** \$49,509.18

**Component Description:** Primary  
Transmission Line

**Amount:** \$12,298.02

**Component Description:** Primary  
Transmission Line

**Amount:** \$61,490.10

**Component Description:** WUPW-310-  
Primary  
Transmission Line  
- Rigid Copper, 4 1  
/16"

**Amount:** \$2,898.00



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	\$381,100.00	\$368,522.63		\$186,089.63	
Structural engineering tower load study for well documented tower	\$12,600.00	\$18,522.63	per Estimated Cost Justification WUPW-410-Existing Primary Tower - Tower Load Study v0 Rev 6.22.2020	\$21,089.63	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$0.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	\$165,000.00	N/A
Sub-total	\$381,100.00	\$368,522.63	N/A	\$186,089.63	N/A
Total for all systems	\$1,402,739.48	\$1,357,571.17	N/A	\$880,031.51	N/A

Components

Actual Information	
Description	File Name

Structural engineering tower load study for well documented tower	<b>Component Description:</b> <b>Amount:</b>	20% deposit WUPW \$1,404.52
	<b>Component Description:</b> <b>Amount:</b>	Inspection and Mapping for WUPW \$5,618.11
	<b>Component Description:</b> <b>Amount:</b>	Perform a Structural Reanalysis for the referenced site for the new scenario. \$2,500.00
	<b>Component Description:</b> <b>Amount:</b>	Perform a Structural Analysis for referenced project. \$6,000.00
	<b>Component Description:</b> <b>Amount:</b>	Structural analysis \$1,500.00
	<b>Component Description:</b> <b>Amount:</b>	Structural analysis \$1,500.00
	<b>Component Description:</b> <b>Amount:</b>	STNLSA STNL Structural Analysis \$2,567.00
Minor tower reinforcement /modifications	Information not provided.	

Tall Tower (greater than 500')		
	<b>Component Description:</b>	Tower Service-Down payment and mobilization for WUPW
	<b>Amount:</b>	\$65,000.00
	<b>Component Description:</b>	Tower Service-Final Invoice for the WUPW Project
	<b>Amount:</b>	\$100,000.00

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	\$210,560.00	\$255,985.00		\$82,655.65	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,375.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,560.00	N/A	\$2,030.00	N/A
Project management of the transition	\$94,010.00	\$144,675.00	Please see attached Widely quote	\$72,513.15	N/A

Other Engineering Services	<b>\$10,000.00</b>	\$10,000.00	Cost estimate for other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc.	\$4,737.50	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	N/A
<b>Sub-total</b>	\$210,560.00	\$255,985.00	N/A	\$82,655.65	N/A
<b>Total for all systems</b>	\$1,402,739.48	\$1,357,571.17	N/A	\$880,031.51	N/A

## Components

Actual Information		
Description	File Name	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>	Engineering study work for new channel assignment and antenna development.
	<b>Amount:</b>	\$125.00
	<b>Component Description:</b>	Engineering study work for new channel assignment and antenna development.
	<b>Amount:</b>	\$1,250.00

Prepare and or review reimbursement form	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 38988 v200722pmv1 \$180.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 38623 v200722pmv1 \$50.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 35819 v200204jgv1 \$175.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 35405 v200204jgv1 \$45.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 35010 v200204jgv1 \$1,530.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 36196 v200204jgv1 \$50.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 36549 V200424pmv1 \$100.00 </div> </div>
Project management of the transition	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 36549 V200424pmv1 \$874.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Osborn 32839 v190614pmv1 \$1,875.00 </div> </div>

<b>Component Description:</b>	Osborn 38988 v200722pmv1
<b>Amount:</b>	\$237.00

<b>Component Description:</b>	Osborn 38623 v200722pmv1
<b>Amount:</b>	\$632.00

<b>Component Description:</b>	Osborn 32837 v190614pmv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,135.10

<b>Component Description:</b>	Osborn 32975 v190617pmv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,335.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,476.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,263.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,753.20



<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,782.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$5,022.90

<b>Component Description:</b>	Osborn 35405 v200204jgv1
<b>Amount:</b>	\$237.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,965.45

<b>Component Description:</b>	Osborn 32210 v200204jgv1
<b>Amount:</b>	\$1,200.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,384.05

<b>Component Description:</b>	Osborn 34590 v190813jgv1
<b>Amount:</b>	\$375.00

<b>Component Description:</b>	Osborn 35010 v200204jgv1
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,305.35

<b>Component Description:</b>	Osborn 36196 v200204jgv1
<b>Amount:</b>	\$1,264.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,533.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,961.60

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,419.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,607.35

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,843.35

<b>Component Description:</b>	Osborn 35819 v200204jgv1
<b>Amount:</b>	\$316.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,531.60

<b>Component Description:</b>	Osborn 33673 v190618pmv1
<b>Amount:</b>	\$1,050.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,649.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,593.60

<b>Component Description:</b>	Osborn 36561 V200424pmv1
<b>Amount:</b>	\$474.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,417.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,133.70

<b>Component Description:</b>	Osborn 36549 V200424pmv1
<b>Amount:</b>	\$948.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,348.30

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,915.30

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Other Engineering Services	<b>Component Description:</b> Osborn 38988 v200722pmv1	
	<b>Amount:</b> \$702.50	
	<b>Component Description:</b> Osborn 36196 v200204jgv1	
	<b>Amount:</b> \$4,035.00	
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b> FCC Form 2100 Construction Permit Application	
	<b>Amount:</b> \$2,000.00	

## 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>\$52,751.00</b>	<b>\$44,151.00</b>		<b>\$4,881.00</b>	
Security	<i>\$4,536.00</i>	\$4,536.00	Security service - Security Personnel provided by vendor to the equipment shelter site	\$4,536.00	N/A
Equipment Delivery and Handling Charges	<i>\$2,970.00</i>	\$2,970.00	On site forklift rental estimate Representative quote attached	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,850.00</i>	\$2,850.00	estimate for on air rescan announcement production Quote attached	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$345.00</i>	\$345.00	Please see attached disposal justification document and Bluebox Dumpsters, Inc. invoice #2920	\$345.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,950.00	Group quote attached	N/A	N/A
MVPD Notification of Channel Change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A

Equipment Storage	<b>\$30,500.00</b>	\$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	N/A	N/A
<b>Sub-total</b>	\$52,751.00	\$44,151.00	N/A	\$4,881.00	N/A
<b>Total for all systems</b>	\$1,402,739.48	\$1,357,571.17	N/A	\$880,031.51	N/A

## Components

Actual Information	
Description	File Name
Security	<p><b>Component Description:</b> Security Service <b>Amount:</b> \$1,008.00</p> <p><b>Component Description:</b> Security Service <b>Amount:</b> \$1,512.00</p> <p><b>Component Description:</b> Security Service <b>Amount:</b> \$2,016.00</p>
Equipment Delivery and Handling Charges	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b> 20 yd. dumpster <b>Amount:</b> \$345.00</p>
DTV Medical Facility Notification	Information not provided.
MVPD Notification of Channel Change	Information not provided.

Equipment Storage	Information not provided.
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<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>	\$1,402,739.48	\$1,357,571.17
			\$880,031.51

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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	<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>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>07/22/2020</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>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>07/22/2020</p>

## Attachments