



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **12855** | Service: **DTV** | Call **WUCF-TV** | Channel: **23 (UHF)** |  
ID:  
File **0000027360** | Sign:  
Number:  
FRN: **0022163661** | Date **06/11**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>UNIVERSITY OF CENTRAL FLORIDA</b> Doing Business As: UNIVERSITY OF CENTRAL FLORIDA	Van Nguyen 12201 RESEARCH PARKWAY SUITE 501 ORLANDO, FL 32826 United States	+1 (407) 882- 1046	VAN. NGUYEN@UCF. EDU	Government Entity

## 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	Replace IOT transmitter with solid state, replace antenna, re-use existing line. Map and analyze tower; design & modify if needed. Flash-cut to new channel upon coordination with other stations in phase 7.

## Transmitters

Section	Question	Response
<b>Transmitter Related Expenses</b>	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	Paragon DCXP-2
	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	47.2 kW
	Justification for New Transmitter	The cost of this new transmitter will be less than the cost of retuning the existing transmitter.

**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	Yes
	Size	3 inches
	Length	100.0 feet

	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
<b>Additional Interior RF System</b>	Interior RF system to complete the transmitter installation
<b>Transmitter Decommissioning</b>	Transmitter Decommissioning
<b>2nd Exciter</b>	2nd Exciter with auto switch over to replace existing

**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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
<b>Existing Antenna Manufacturer and Type</b>	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) .....	950.0 kW

Manufacturer	
Model	TFU- 30DSC-R 3C 152 DC
Year	2003



**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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?	Yes
<b>New Antenna Manufacturer and Types</b>	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) .....	1000.0 kW
	Manufacturer	
	Model	ATW30HS3- ESCX-34H

Year	2019
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

## 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?	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?	Yes
<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**

<b>Name</b>	<b>Description</b>
<b>Interior Line Sections</b>	Interior 6-1/8" line sections to extend the transmission line to the new transmitter location inside the existing building

**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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1290 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Tests	Sweep line to insure acceptable with assigned channel

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	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 ¾ '
	Other Segment Length	
	Number of parallel runs	1
	Length	1130 feet per run
	Justification for New Transmission Line	Required for interim operation

Interim 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	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1026744
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	28° 36' 08.0" N-
	Longitude (NAD83)	081° 05' 36.0" W-
	Overall Structure Height	1608.25 feet
	Support Structure Height	1479.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	64.96 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	WPOZ / Charitable Ministry Support Inc.
	Date Constructed	01/01/1992

**FM, AM or TV radio  
broadcasters. Facility ID's,  
Call Signs and Services of  
other broadcast stations with  
whom the tower is shared**

Facility ID	Call Sign	Service
12857	WMFE-FM	FM
9876	WPOZ	FM

#### Other Types of Users

Users
Various mwave

#### 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**

Name	Description
Preliminary Inspection	Tower / Antenna Preliminary Installation Inspection



**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399.
<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	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	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	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	Yes
	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	No
	Additional Field Engineering Service	Yes
	Number of Days	14

	Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects.
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**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**  
Services not 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	No
	Non-zoning permits	Yes
	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
Transmitter Training	Transmitter Training

## 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 Justification
<b>Primary Transmitter ULXTE-72</b>	<b>\$1,653,092.56</b>	<b>\$1,481,399.64</b>		<b>\$1,447,162.64</b>	
2nd Exciter	<i>\$14,950.00</i>	\$14,950.00	See attached uploaded Revised Transition Plan November 2018	\$14,950.00	
Transmitter Decommissioning	<i>\$24,975.00</i>	\$24,975.00	Electrical Decommissioning of old transmitter added \$3225	N/A	
Additional Interior RF System	<i>\$71,217.56</i>	\$71,217.56	See attached uploaded Revised Transition Plan November 2018	\$71,217.56	
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$11,279.56	See attached uploaded Revised Transition Plan November 2018	\$11,279.56	Invo JW3C (Qu 790 \$1,2 w chan due adc tran f
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,316,827.52	See attached uploaded Revised Transition Plan November 2018	\$1,316,827.52	

Switchgear - industrial 800 amp	\$38,200.00	\$37,150.00	N/A	\$32,888.00
<b>Sub-total</b>	\$1,653,092.56	\$1,481,399.64	N/A	\$1,447,162.64
<b>Total for all systems</b>	\$2,884,359.45	\$2,344,900.78	N/A	\$1,954,414.53

## Components

Actual Information Description	File Name
2nd Exciter	<p><b>Component Description:</b> Line A on the invoice</p> <p><b>Amount:</b> \$7,475.00</p> <p><b>Component Description:</b> Line A on invoice</p> <p><b>Amount:</b> \$7,475.00</p>
Transmitter Decommissioning	Information not provided.
Additional Interior RF System	<p><b>Component Description:</b> Line C on the invoice</p> <p><b>Amount:</b> \$35,608.78</p> <p><b>Component Description:</b> Line C on invoice</p> <p><b>Amount:</b> \$35,608.78</p>
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Transformer 3 phase/480v - 150 KVA	<div> <b>Component Description:</b> Line D on the invoice </div> <div> <b>Amount:</b> \$4,991.81 </div>
	<div> <b>Component Description:</b> Line D on invoice </div> <div> <b>Amount:</b> \$4,991.81 </div>
	<div> <b>Component Description:</b> ULXTE-72. Change Order Quote Q-79081 ASSY, 6-1/8 XFMR FLG, 50 to 75. </div> <div> <b>Amount:</b> \$1,295.94 </div>
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div> <b>Component Description:</b> For Line A (\$584,280.215) plus Line B (\$33,288.295) and minus Line E (\$40,845.250 paid in previous 50% down payment, invoice JW30004486-1). Line E (total \$81,690.50) will be invoiced at completion. </div> <div> <b>Amount:</b> \$576,723.26 </div>
	<div> <b>Component Description:</b> Line E: Installation and Proof </div> <div> <b>Amount:</b> \$81,690.50 </div>
	<div> <b>Component Description:</b> Lines A, B, and E on invoice </div> <div> <b>Amount:</b> \$658,413.76 </div>



Switchgear - industrial 800 amp	<b>Component Description:</b>	Invoicing for
		balance of
	<b>Amount:</b>	Purchase Order
		\$18,388.00
	<b>Component Description:</b>	Invoicing for Switch
		Gear and Materials
	<b>Amount:</b>	\$14,500.00

## 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
<b>Primary Antenna ATW30HS3-ESCX-34H</b>	<b>\$277,644.97</b>	<b>\$259,430.22</b>		<b>\$259,333.44</b>	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<i>\$215,330.17</i>	\$215,330.17	***System Notice: Estimate adjusted and locked because line has been superseded. ***See attached uploaded Revised Transition Plan November 2018	\$215,233.39	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<i>\$0.00</i>	\$0.00	Adding \$0 Estimate to clear error on superseded line. Updated original line estimate to actual final cost and caused error.	N/A	N/A

Interior Line Sections	<b>\$20,134.80</b>	\$20,134.80	See attached uploaded Revised Transition Plan November 2018	\$20,134.80	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$10,860.00	See attached uploaded Revised Transition Plan November 2018	\$10,860.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$6,855.25	See attached uploaded Revised Transition Plan November 2018	\$6,855.25	N/A
Sweep test of existing antenna	\$6,730.00	\$6,250.00	See attached uploaded Revised Transition Plan November 2018	\$6,250.00	N/A
<b>Sub-total</b>	<b>\$277,644.97</b>	<b>\$259,430.22</b>	<b>N/A</b>	<b>\$259,333.44</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,884,359.45</b>	<b>\$2,344,900.78</b>	<b>N/A</b>	<b>\$1,954,414.53</b>	<b>N/A</b>

## Components

**Actual Information**  
**Description**

**File Name**

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<div> <div>Component Description:</div> <div>ATW30HS3-ESCX-34H &amp; Mounts</div> <div>Amount:</div> <div>\$22,158.39</div> </div>
	<div> <div>Component Description:</div> <div>ATW30HS3-ESCX-34H &amp; Mounts; 30% Prior to Shipment Revised HV Pole Cover Letter price difference actual</div> <div>Amount:</div> <div>\$15,500 \$69,428.22</div> </div>
	<div> <div>Component Description:</div> <div>ATW30HS3-ESCX-34H &amp; Mounts</div> <div>Amount:</div> <div>\$69,525.00</div> </div>
	<div> <div>Component Description:</div> <div>ATW30HS3-ESCX-34H &amp; Mounts; 30% payment 30 days ARO</div> <div>Amount:</div> <div>\$54,121.78</div> </div>
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	Information not provided.

Interior Line Sections	<b>Component Description:</b>		Transmission Line System
	<b>Amount:</b>		\$2,013.48
	<b>Component Description:</b>		Transmission Line System; 30% Prior to Shipment
	<b>Amount:</b>		\$6,040.44
	<b>Component Description:</b>		Transmission Line System;30% payment 30 days ARO
	<b>Amount:</b>		\$6,040.44
	<b>Component Description:</b>		Transmission Line System
	<b>Amount:</b>		\$6,040.44

Side mount brackets for high power antennas (if not included in antenna base cost)		
	<b>Component Description:</b>	ATW30HS3-ESCX-34H & Mounts
	<b>Amount:</b>	\$1,086.00
	<b>Component Description:</b>	ATW30HS3-ESCX-34H & Mounts; 30% Prior to Shipment
	<b>Amount:</b>	\$3,258.00
	<b>Component Description:</b>	ATW30HS3-ESCX-34H & Mounts; 30% payment 30 days ARO
	<b>Amount:</b>	\$3,258.00
	<b>Component Description:</b>	ATW30HS3-ESCX-34H & Mounts
	<b>Amount:</b>	\$3,258.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b> Transmission Line System; 30% Prior to Shipment <b>Amount:</b> \$2,056.58
	<b>Component Description:</b> Transmission Line System;30% payment 30 days ARO <b>Amount:</b> \$2,056.58
	<b>Component Description:</b> Transmission Line System <b>Amount:</b> \$2,056.58
	<b>Component Description:</b> Transmission Line System <b>Amount:</b> \$685.51
Sweep test of existing antenna	<b>Component Description:</b> System Sweep <b>Amount:</b> \$625.00
	<b>Component Description:</b> System Sweep; 30% payment 30 days ARO <b>Amount:</b> \$1,875.00
	<b>Component Description:</b> System Sweep; 30% Prior to Shipment <b>Amount:</b> \$1,875.00
	<b>Component Description:</b> System Sweep <b>Amount:</b> \$1,875.00

## 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
<b>Interim Transmission Line</b>	<b>\$228,260.00</b>	<b>\$0.00</b>		<b>\$0.00</b>	
Rigid Transmission Line - copper, 6 1/8"	\$228,260.00	\$0.00	Not Needed. See attached uploaded Revised Transition Plan November 2018	N/A	N/A
<b>Primary Transmission Line</b>	<b>\$6,400.00</b>	<b>\$6,400.00</b>		<b>\$4,172.00</b>	
Sweep Tests	<i>\$6,400.00</i>	\$6,400.00	N/A	\$4,172.00	N/A
<b>Sub-total</b>	<b>\$234,660.00</b>	<b>\$6,400.00</b>	<b>N/A</b>	<b>\$4,172.00</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,884,359.45</b>	<b>\$2,344,900.78</b>	<b>N/A</b>	<b>\$1,954,414.53</b>	<b>N/A</b>

### Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8"	Information not provided.



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Sweep Tests

**Component Description:**

Perform system diagnostics for ability to sweep 75 OHM line without tower crew. Set up sample sections and adaptations to determine viability of testing.

**Amount:**

\$497.00

**Component Description:**

Provide line sweeping and diagnostics with report on two transmission line systems.

**Amount:**

\$3,675.00

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## 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
<b>Primary Tower TOWER</b>	<b>\$393,100.00</b>	<b>\$304,729.00</b>		<b>\$154,729.00</b>	
Preliminary Inspection	<i>\$12,000.00</i>	\$12,000.00	See attached uploaded Revised Transition Plan November 2018	\$12,000.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$6,850.00	See attached uploaded Revised Transition Plan November 2018	\$6,850.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$135,879.00	See attached uploaded Revised Transition Plan November 2018	\$135,879.00	N/A
<b>Sub-total</b>	<b>\$393,100.00</b>	<b>\$304,729.00</b>	N/A	<b>\$154,729.00</b>	N/A
<b>Total for all systems</b>	<b>\$2,884,359.45</b>	<b>\$2,344,900.78</b>	N/A	<b>\$1,954,414.53</b>	N/A

### Components

Actual Information	
Description	File Name
Preliminary Inspection	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Pre-Installation Survey \$6,000.00</div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Pre-Installation Survey \$6,000.00</div>
Minor tower reinforcement /modifications	Information not provided.
Structural engineering tower load study for well documented tower	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Structural analysis and report \$6,850.00</div>
Tall Tower (greater than 500')	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Installation of Antenna;30% payment 30 days ARO \$40,763.69</div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Installation of Antenna \$13,587.92</div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Installation of Antenna; 30% Prior to Shipment \$40,763.69</div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div>Installation of Antenna \$40,763.70</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
<b>Outside Professional Services</b>	<b>\$186,620.00</b>	<b>\$154,250.00</b>		<b>\$26,316.50</b>	
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$35,000.00	N/A	\$0.00	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 - Negotiation of lease and other matters for shared locations	\$4,210.00	\$25,000.00	The station's legal representative recommends \$25,000 to cover this effort.	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$6,375.00	N/A
Project management of the transition	\$39,500.00	\$37,500.00	N/A	\$8,379.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$2,500.00	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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$3,000.00	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 request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A

Additional Field Engineering Service, 14 Days	<b>\$28,000.00</b>	\$28,000.00	N/A	\$6,062.50	N/A
<b>Sub-total</b>	\$186,620.00	\$154,250.00	N/A	\$26,316.50	N/A
<b>Total for all systems</b>	\$2,884,359.45	\$2,344,900.78	N/A	\$1,954,414.53	N/A

## Components

Actual Information Description	File Name
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	<div> <div> <b>Component Description:</b> FCC DTV Repack Services Repack Station: WUCF (DT); Construction Permit Application; By Ryan Wihour. Rate \$250.00; Hours 7.5 </div> <div> <b>Amount:</b> \$1,875.00 </div> </div> <div> <div> <b>Component Description:</b> Perform engineering study for new channel assignment and antenna development </div> <div> <b>Amount:</b> \$4,500.00 </div> </div>
Project management of the transition	<div> <div> <b>Component Description:</b> Prepare Schedule 387 Progress Report 4Q2017 during January 1-10, 2018 for WUCF </div> <div> <b>Amount:</b> \$225.00 </div> </div> <div> <div> <b>Component Description:</b> DTV Repack Services by Bob Gehman July 2019 for station WUCF-TV: Transition timeline and scheduling, Data for preparation of FAA form 7460-1, Linked station and Dependency Station Analysis, Transition plan and Coordination </div> <div> <b>Amount:</b> \$1,000.00 </div> </div>



<b>Component Description:</b>	DTV Repack Services Dec 2019 for station WUCF: Prep and submit Form 399. By Jeff Gehman Rate \$250 X 0.2 hours
<b>Amount:</b>	\$50.00

<b>Component Description:</b>	DTV Repack Services by Jeff Gehman March 2019 for station WUCF: Form 399 Actual Cost invoice review, prep and submit
<b>Amount:</b>	\$200.00

<b>Component Description:</b>	DTV Repack services by Bob Gehman October 2019 for WUCF- TV: Form 387 Transition Plan Progress Report 2019 Q3
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman January 2020 for WUCF: Form 387 Transition Plan Progress Report 2019 Q4
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	DTV Repack services by Bob Gehman September 2019 for WUCF-TV: Derek T & Ryan W, assistance with azimuth pattern values. Rate \$250.00; Hours 0.3
<b>Amount:</b>	\$75.00

<b>Component Description:</b>	Repack engineering services by Bob Gehman during August 2019. Rate \$250.00; Hours 0.5
<b>Amount:</b>	\$125.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman January 2020 for WUCF- TV: Derek T, requested parameters for license to cover; 1.2 hours x Rate \$250
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	DTV Repack services August 2019 for station WUCF: Prep and submit Form 399 Actual Cost invoices; by Jeff Gehman. Rate \$250.00; Hours 1.6
<b>Amount:</b>	\$400.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman July 2019 for WUCF: Form 387 Transition Plan Progress Report 2019 Q2
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman April 2019 for WUCF: Form 387 Transition Plan Progress Report 2019 Q1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman January 2020 for WUCF: Form 387 Transition Plan Progress Report "5 Days After"
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman November 2018: Amendment of FCC form 399 Reimbursement Budget
<b>Amount:</b>	\$3,339.00

<b>Component Description:</b>	Prepare Schedule 387 Progress Report 2018 Q1 during January 1- 10, 2018
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	DTV Repack Services by Bob Gehman January 2020 for WUCF: Form 387 Transition Plan Progress Report "10 Days After"
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	DTV Repack Services: 2018 Q4 Form 387 Transition Plan Progress Report preparation
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Review equipment for 399 Amendment
<b>Amount:</b>	\$265.00

<b>Component Description:</b>	DTV Repack Services Oct 2019 for Station WUCF: Prep and submit Form 399. By Jeff Gehman Rate \$250 X 1.5 hours
<b>Amount:</b>	\$375.00

	<p><b>Component Description:</b></p> <p>Preparation of FCC Schedule 387 Progress Report</p> <p><b>Amount:</b></p> <p>\$300.00</p>
	<p><b>Component Description:</b></p> <p>DTV Repack Services: Prep and submit For 387 Transition Plan Progress Report</p> <p><b>Amount:</b></p> <p>\$150.00</p>
	<p><b>Component Description:</b></p> <p>DTV Repack Services: Form 387 Transition Plan Progress Report</p> <p><b>Amount:</b></p> <p>\$150.00</p>
	<p><b>Component Description:</b></p> <p>DTV Repack Services by Bob Gehman Nov 2019 for station WUCF: Form 387 10 weeks before Transition Plan Progress Report prepared</p> <p><b>Amount:</b></p> <p>\$150.00</p>
Prepare and or review reimbursement form	<p><b>Component Description:</b></p> <p>Prepare or Review FCC Form 399 for Reimbursement</p> <p><b>Amount:</b></p> <p>\$2,500.00</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p><b>Component Description:</b></p> <p>Prepare engineering section of Form FCC Construction Permit Application for Main Facility</p> <p><b>Amount:</b></p> <p>\$3,000.00</p>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Additional Field Engineering Service, 14 Days	<p><b>Component Description:</b></p> <p>Other engineering services in connection the repack of WUCF, including preliminary RF system design</p> <p><b>Amount:</b></p> <p>\$6,062.50</p>

## 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>\$139,241.92</b>	<b>\$138,691.92</b>		<b>\$62,700.95</b>	
Transmitter Training	<i>\$9,191.00</i>	\$9,191.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	\$1,620.00	N/A
Develop and air announcement of upcoming channel change	<i>\$1,458.09</i>	\$1,458.09	N/A	\$1,458.09	N/A
Equipment Delivery and Handling Charges	<i>\$40,042.83</i>	\$40,042.83	\$26,975.66 were actual freight charges for transmitter delivery provided on final transmitter invoice US0330449. Antenna freight charges are \$13,067.17	\$40,042.83	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	\$1,350.00	N/A

Equipment Storage	<b>\$25,000.00</b>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<b>\$25,000.00</b>	\$25,000.00	N/A	\$13,785.03	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$4,445.00	N/A
<b>Sub-total</b>	\$139,241.92	\$138,691.92	N/A	\$62,700.95	N/A
<b>Total for all systems</b>	\$2,884,359.45	\$2,344,900.78	N/A	\$1,954,414.53	N/A

## Components

Actual Information	
Description	File Name
Transmitter Training	Information not provided.
MVPD Notification of Channel Change	<p><b>Component Description:</b> DTV Repack services by Ryan Wilhour September 2019 for WUCF-TV; Channel Change MVPD Notification Services</p> <p><b>Amount:</b> \$1,620.00</p>
Develop and air announcement of upcoming channel change	<p><b>Component Description:</b> 100# Silk Cover; No. of Copies \$3,500.</p> <p><b>Amount:</b> \$1,458.09</p>



Equipment Delivery and Handling Charges	<div> <b>Component Description:</b> ACTUAL Freight / Shipping Costs  <b>Amount:</b> \$26,975.66         </div> <div> <b>Component Description:</b> Freight  <b>Amount:</b> \$13,067.17         </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	<div> <b>Component Description:</b> Bin Services: 15 yard Bin C/D  <b>Amount:</b> \$450.00         </div> <div> <b>Component Description:</b> Bin Services: 15 yard Bin C/D  <b>Amount:</b> \$450.00         </div> <div> <b>Component Description:</b> Bin Services: 15 yard Bin C/D  <b>Amount:</b> \$450.00         </div>
Equipment Storage	Information not provided.
Non-zoning permits	<div> <b>Component Description:</b> Permitting Services for Repack Antenna Change-out at 4498 TV Tower Road, Bithlo FL 32820  <b>Amount:</b> \$13,785.03         </div>

DTV Medical Facility Notification	<table><tr><td data-bbox="710 91 1141 627"><b>Component Description:</b></td><td data-bbox="1141 91 1431 627">DTV Repack services by Ryan Wilhour September 2019; Channel Change Medical Notification Services for WUCF-TV</td></tr><tr><td data-bbox="710 515 1141 627"><b>Amount:</b></td><td data-bbox="1141 515 1431 627">\$4,445.00</td></tr></table>	<b>Component Description:</b>	DTV Repack services by Ryan Wilhour September 2019; Channel Change Medical Notification Services for WUCF-TV	<b>Amount:</b>	\$4,445.00
<b>Component Description:</b>	DTV Repack services by Ryan Wilhour September 2019; Channel Change Medical Notification Services for WUCF-TV				
<b>Amount:</b>	\$4,445.00				

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,884,359.45	\$2,344,900.78	\$1,954,414.53

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"> <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>Van Nguyen</b>  <i>Contracts and Grants Accountant I</i></p> <p>06/11/2020</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>Van Nguyen</b> <i>Contracts and Grants Accountant I</i></p> <p>06/11/2020</p>

## Attachments