



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **12855** | Service: **DTV** | Call **WUCF-TV** | Channel: **23 (UHF)** |
ID: | Sign:
File **0000027360**
Number:
FRN: **0022163661** | Date **12/03**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
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
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	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
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Transmitter Decommissioning	Transmitter Decommissioning
2nd Exciter	2nd Exciter with auto switch over to replace existing
Additional Interior RF System	Interior RF system to complete the transmitter installation

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?	Yes
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)	950.0 kW

Manufacturer	
Model	TFU- 30DSC-R 3C 152 DC
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?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
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)	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
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

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

Other Antenna Cost Not Listed

Name	Description
Interior Line Sections	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
9876	WPOZ	FM
12857	WMFE-FM	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
Outside Project Management Services	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.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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
Attorney and Other Outside Consulting Services	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
RF Field Engineering Services	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 Other Professional Services Expenses Not Listed
Professional Services Costs Services not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	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
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	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
STL-TSL Waveguide Extension	STL-TSL equipment needs relocated in building to be in the new transmitter location in the transmitter building lease space.

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
Primary Transmitter ULXTE-72	\$1,653,092.56	\$1,481,399.64		\$1,472,137.64	
Additional Interior RF System	<i>\$71,217.56</i>	\$71,217.56	See attached uploaded Revised Transition Plan November 2018	\$71,217.56	
Transmitter Decommissioning	<i>\$24,975.00</i>	\$24,975.00	Electrical Decommissioning of old transmitter added \$3225	\$24,975.00	
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 \$1,4 w chang due adc tran f
Switchgear - industrial 800 amp	\$38,200.00	\$37,150.00	N/A	\$32,888.00	
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	

2nd Exciter	\$14,950.00	\$14,950.00	See attached uploaded Revised Transition Plan November 2018	\$14,950.00
Sub-total	\$1,653,092.56	\$1,481,399.64	N/A	\$1,472,137.64
Total for all systems	\$2,887,159.45	\$2,347,700.78	N/A	\$2,024,139.53

Components

Actual Information	
Description	File Name
Additional Interior RF System	Component Description: Line C on the invoice Amount: \$35,608.78
	Component Description: Line C on invoice Amount: \$35,608.78
Transmitter Decommissioning	Component Description: Decommission and removal of electric equipment to transmitter. Amount: \$3,225.00
	Component Description: Deployment of a tower crew for the decommissioning of the transmitter Amount: \$21,750.00
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Transformer 3 phase/480v - 150 KVA	<div> <div> Component Description: Amount: </div> <div> Line D on the invoice \$4,991.81 </div> </div> <div> <div> Component Description: Amount: </div> <div> ULXTE-72. Change Order Quote Q- 79081 ASSY, 6-1/8 XFMR FLG, 50 to 75. \$1,295.94 </div> </div> <div> <div> Component Description: Amount: </div> <div> Line D on invoice \$4,991.81 </div> </div>
Switchgear - industrial 800 amp	<div> <div> Component Description: Amount: </div> <div> Invoicing for balance of Purchase Order \$18,388.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Invoicing for Switch Gear and Materials \$14,500.00 </div> </div>

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	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. Amount: \$576,723.26
	Component Description:	Lines A, B, and E on invoice
	Amount:	\$658,413.76
	Component Description:	Line E: Installation and Proof
	Amount:	\$81,690.50
2nd Exciter	Component Description:	Line A on the invoice
	Amount:	\$7,475.00
	Component Description:	Line A on invoice
	Amount:	\$7,475.00

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
Primary Antenna ATW30HS3-ESCX-34H	\$277,644.97	\$259,430.22		\$259,333.44	
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
Interior Line Sections	<i>\$20,134.80</i>	\$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
Sub-total	\$277,644.97	\$259,430.22	N/A	\$259,333.44	N/A
Total for all systems	\$2,887,159.45	\$2,347,700.78	N/A	\$2,024,139.53	N/A

Components

Actual Information
Description

File Name

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	Component Description:	ATW30HS3-ESCX-34H & Mounts
	Amount:	\$22,158.39
	Component Description:	ATW30HS3-ESCX-34H & Mounts; 30% Prior to Shipment Revised HV Pole Cover Letter price difference actual
	Amount:	\$15,500 \$69,428.22
	Component Description:	ATW30HS3-ESCX-34H & Mounts; 30% payment 30 days ARO
	Amount:	\$54,121.78
	Component Description:	ATW30HS3-ESCX-34H & Mounts
	Amount:	\$69,525.00

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

Side mount brackets for
high power antennas (if not
included in antenna base
cost)

Component Description: ATW30HS3-ESCX-
34H & Mounts
Amount: \$1,086.00

Component Description: ATW30HS3-ESCX-
34H & Mounts;
30% Prior to
Shipment
Amount: \$3,258.00

Component Description: ATW30HS3-ESCX-
34H & Mounts;
30% payment 30
days ARO
Amount: \$3,258.00

Component Description: ATW30HS3-ESCX-
34H & Mounts
Amount: \$3,258.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	Transmission Line System
	Amount:	\$685.51
	Component Description:	Transmission Line System; 30% Prior to Shipment
	Amount:	\$2,056.58
	Component Description:	Transmission Line System
	Amount:	\$2,056.58
	Component Description:	Transmission Line System;30% payment 30 days ARO
	Amount:	\$2,056.58
Sweep test of existing antenna	Component Description:	System Sweep
	Amount:	\$625.00
	Component Description:	System Sweep; 30% Prior to Shipment
	Amount:	\$1,875.00
	Component Description:	System Sweep; 30% payment 30 days ARO
	Amount:	\$1,875.00
	Component Description:	System Sweep
	Amount:	\$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
Interim Transmission Line	\$228,260.00	\$0.00		\$0.00	
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
Primary Transmission Line	\$6,400.00	\$6,400.00		\$4,172.00	
Sweep Tests	<i>\$6,400.00</i>	\$6,400.00	N/A	\$4,172.00	N/A
Sub-total	\$234,660.00	\$6,400.00	N/A	\$4,172.00	N/A
Total for all systems	\$2,887,159.45	\$2,347,700.78	N/A	\$2,024,139.53	N/A

Components

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

Sweep Tests

Component Description:

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

Amount:

\$3,675.00

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

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	\$393,100.00	\$304,729.00		\$154,729.00	
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
Sub-total	\$393,100.00	\$304,729.00	N/A	\$154,729.00	N/A
Total for all systems	\$2,887,159.45	\$2,347,700.78	N/A	\$2,024,139.53	N/A

Components

Actual Information	
Description	File Name
Preliminary Inspection	Component Description: Pre-Installation Survey
	Amount: \$6,000.00
	Component Description: Pre-Installation Survey
	Amount: \$6,000.00
Minor tower reinforcement /modifications	Information not provided.
Structural engineering tower load study for well documented tower	Component Description: Structural analysis and report
	Amount: \$6,850.00
Tall Tower (greater than 500')	Component Description: Installation of Antenna
	Amount: \$13,587.92
	Component Description: Installation of Antenna; 30% Prior to Shipment
	Amount: \$40,763.69
	Component Description: Installation of Antenna
	Amount: \$40,763.70
	Component Description: Installation of Antenna;30% payment 30 days ARO
	Amount: \$40,763.69

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 Co. Justificati
Outside Professional Services	\$186,620.00	\$154,250.00		\$61,316.50	
Additional Field Engineering Service, 14 Days	\$28,000.00	\$28,000.00	N/A	\$6,062.50	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$35,000.00	N/A	\$35,000.00	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
Prepare request for Special Temporary Authorization	\$2,050.00	\$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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$3,000.00	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
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	\$2,500.00	N/A

Project management of the transition	\$39,500.00	\$37,500.00	N/A	\$8,379.00	N/A
Sub-total	\$186,620.00	\$154,250.00	N/A	\$61,316.50	N/A
Total for all systems	\$2,887,159.45	\$2,347,700.78	N/A	\$2,024,139.53	N/A

Components

Actual Information	
Description	File Name
Additional Field Engineering Service, 14 Days	<p>Component Description: Other engineering services in connection the repack of WUCF, including preliminary RF system design</p> <p>Amount: \$6,062.50</p>
Comprehensive coverage verification via field study, if needed	<p>Component Description: DTV Repack Services by Ryan Wilhour - August 2020. Field strength survey and report for incentive auction station WUCF (TV)</p> <p>Amount: \$35,000.00</p>
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.	
Prepare request for Special Temporary Authorization	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	Component Description: Amount:	Prepare engineering section of Form FCC Construction Permit Application for Main Facility \$3,000.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount: Component Description: Amount:	FCC DTV Repack Services Repack Station: WUCF (DT); Construction Permit Application; By Ryan Wihour. Rate \$250.00; Hours 7.5 \$1,875.00 Perform engineering study for new channel assignment and antenna development \$4,500.00

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description: Amount:	Prepare or Review FCC Form 399 for Reimbursement \$2,500.00
Project management of the transition	Component Description: Amount: Component Description: Amount: Component Description: Amount:	Prepare Schedule 387 Progress Report 4Q2017 during January 1-10, 2018 for WUCF \$225.00 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 \$1,000.00 DTV Repack Services Dec 2019 for station WUCF: Prep and submit Form 399. By Jeff Gehman Rate \$250 X 0.2 hours \$50.00

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

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

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

Component Description:	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
Amount:	\$75.00

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

Component Description:	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
Amount:	\$300.00

Component Description:	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
Amount:	\$400.00

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

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

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

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

Component Description:	Preparation of FCC Schedule 387 Progress Report
Amount:	\$300.00

Component Description:	DTV Repack Services: Form 387 Transition Plan Progress Report
Amount:	\$150.00

Component Description:	Review equipment for 399 Amendment
Amount:	\$265.00

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

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

Component Description:	DTV Repack Services: Prep and submit For 387 Transition Plan Progress Report
Amount:	\$150.00

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

Component Description:

DTV Repack
Services by Bob
Gehman Nov 2019
for station WUCF:
Form 387 10 weeks
before Transition
Plan Progress
Report prepared
\$150.00

Amount:**Component Description:**

Prepare Schedule
387 Progress
Report 2018 Q1
during January 1-
10, 2018
\$225.00

Amount:

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$142,041.92	\$141,491.92		\$72,450.95	
STL-TSL Waveguide Extension	<i>\$2,800.00</i>	\$2,800.00	WUCF leases building space and the new transmitter was placed in a new location. WUCF unintentionally did not realize when building the initial repack budget the need to relocate and extend the STL/TSL equipment.	\$2,800.00	N/A
Transmitter Training	<i>\$9,191.00</i>	\$9,191.00	N/A	\$5,000.00	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 Storage	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	\$40,042.83	\$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)	\$25,000.00	\$25,000.00	N/A	\$3,300.00	N/A
Non-zoning permits	\$25,000.00	\$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
Sub-total	\$142,041.92	\$141,491.92	N/A	\$72,450.95	N/A
Total for all systems	\$2,887,159.45	\$2,347,700.78	N/A	\$2,024,139.53	N/A

Components

Actual Information	
Description	File Name
STL-TSL Waveguide Extension	<p>Component Description: Deployment of a tower crew for the fabrication and installation of a waveguide jumper.</p> <p>Amount: \$2,800.00</p>

Transmitter Training	Component Description: Training Amount: \$5,000.00
MVPD Notification of Channel Change	Component Description: DTV Repack services by Ryan Wilhour September 2019 for WUCF-TV; Channel Change MVPD Notification Services Amount: \$1,620.00
Develop and air announcement of upcoming channel change	Component Description: 100# Silk Cover; No. of Copies \$3,500. Amount: \$1,458.09
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Component Description: ACTUAL Freight / Shipping Costs Amount: \$26,975.66 Component Description: Freight Amount: \$13,067.17

Disposal Costs (for equipment and other waste, net of any salvage value)	<table> <tr> <td data-bbox="719 174 1027 208">Component Description:</td><td data-bbox="1161 174 1378 365">Deployment of a tower crew to haul away and properly dispose of the FM antenna.</td></tr> <tr> <td data-bbox="719 376 831 409">Amount:</td><td data-bbox="1161 376 1281 409">\$1,950.00</td></tr> <tr> <td data-bbox="719 517 1027 551">Component Description:</td><td data-bbox="1161 517 1353 589">Bin Services: 15 yard Bin C/D</td></tr> <tr> <td data-bbox="719 600 831 633">Amount:</td><td data-bbox="1161 600 1260 633">\$450.00</td></tr> <tr> <td data-bbox="719 741 1027 775">Component Description:</td><td data-bbox="1161 741 1353 813">Bin Services: 15 yard Bin C/D</td></tr> <tr> <td data-bbox="719 824 831 857">Amount:</td><td data-bbox="1161 824 1260 857">\$450.00</td></tr> <tr> <td data-bbox="719 965 1027 999">Component Description:</td><td data-bbox="1161 965 1353 1037">Bin Services: 15 yard Bin C/D</td></tr> <tr> <td data-bbox="719 1048 831 1081">Amount:</td><td data-bbox="1161 1048 1260 1081">\$450.00</td></tr> </table>	Component Description:	Deployment of a tower crew to haul away and properly dispose of the FM antenna.	Amount:	\$1,950.00	Component Description:	Bin Services: 15 yard Bin C/D	Amount:	\$450.00	Component Description:	Bin Services: 15 yard Bin C/D	Amount:	\$450.00	Component Description:	Bin Services: 15 yard Bin C/D	Amount:	\$450.00
Component Description:	Deployment of a tower crew to haul away and properly dispose of the FM antenna.																
Amount:	\$1,950.00																
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Component Description:	Bin Services: 15 yard Bin C/D																
Amount:	\$450.00																
Component Description:	Bin Services: 15 yard Bin C/D																
Amount:	\$450.00																
Non-zoning permits	<table> <tr> <td data-bbox="719 1205 1027 1238">Component Description:</td><td data-bbox="1161 1205 1358 1473">Permitting Services for Repack Antenna Change-out at 4498 TV Tower Road, Bithlo FL 32820</td></tr> <tr> <td data-bbox="719 1485 831 1518">Amount:</td><td data-bbox="1161 1485 1297 1518">\$13,785.03</td></tr> </table>	Component Description:	Permitting Services for Repack Antenna Change-out at 4498 TV Tower Road, Bithlo FL 32820	Amount:	\$13,785.03												
Component Description:	Permitting Services for Repack Antenna Change-out at 4498 TV Tower Road, Bithlo FL 32820																
Amount:	\$13,785.03																
DTV Medical Facility Notification	<table> <tr> <td data-bbox="719 1657 1027 1691">Component Description:</td><td data-bbox="1161 1657 1366 2004">DTV Repack services by Ryan Wilhour September 2019; Channel Change Medical Notification Services for WUCF-TV</td></tr> <tr> <td data-bbox="719 2016 831 2049">Amount:</td><td data-bbox="1161 2016 1281 2049">\$4,445.00</td></tr> </table>	Component Description:	DTV Repack services by Ryan Wilhour September 2019; Channel Change Medical Notification Services for WUCF-TV	Amount:	\$4,445.00												
Component Description:	DTV Repack services by Ryan Wilhour September 2019; Channel Change Medical Notification Services for WUCF-TV																
Amount:	\$4,445.00																

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$2,887,159.45	\$2,347,700.78
			\$2,024,139.53

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

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

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

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Van Nguyen <i>Contracts and Grants Accountant I</i></p> <p>12/03/2020</p>

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

3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
4. 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.
5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
6. 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.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Van
Nguyen**
*Contracts
and Grants
Accountant I*

12/03/2020

Attachments