

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID:	12855	Service: DTV	Call Sign:	WUCF-TV	Channel: 23 (UHF)
File Number:	000002	7360			
FRN: 00	22163661	Date Submitted:	05/15 /2020		

Applicant Name, Type, and Contact Information

Applicant Information

n	Applicant	Address	Phone	Email	Applicant Type
	UNIVERSITY OF CENTRAL FLORIDA 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information				
Contact Information	Applicant	Address	Phone	Email	
	The Preparer is same as the reimbursement contact.				

Broadcaster	Question
Information	
and	
Transition	
Plan	

Response

Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	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	Existing Transmitter Information				
Transmitter	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			
	Manufacturer and Type	Model	Paragon DCXP-2		
		Year	2003		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	50 kW		

Existing Transmitter Information

Primary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter Use Change Type	Use	Primary (Main)		
		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		
		Model Transmitter Type Solid State Cooling	The cost of this new transmitter will be less than the cost of retuning the existing transmitter.		

Primary Other Transmitter Costs

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

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information			
Antenna	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	
		Туре	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

Antenna	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	Class	Full Power
	Manufacturer and Types	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
		Туре	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.

Other Antenna Costs

Primary Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	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	Yes
	transmission line and antenna?	

location inside the existing building

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

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Existing Transmission Line Primary Existing Transmission

ssior	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
		Туре	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 Other Transmission Line Expenses Not Listed

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

New Transmission Line

Interim Transmission Line

ission Line	n	Question	Response
	New Transmission Line	Use	Interim
Costs		Description of Use	N/A
		Change Type	Purchase New
		Туре	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 Other Transmission Line Expenses Not Listed

Transmission hometion not provided.

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

Primary	Existing Tower

Primary 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	Latitude (NAD83)	28° 36' 08.0" N-
1983	1983))	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

Tower Modification Costs Primarv

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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	

Other Tower Expenses Not Listed

Primary Tower

Name	Description
Preliminary Inspection	Tower / Antenna Preliminary Installation Inspection

Outside	Section	Question	Response
Professional	Services Costs 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.

Other Professional Services Expenses Not Listed Professional Services roostsided.

Other	Section	Question	Response
Expenses	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 Not Listed

Other Expenses _{Nam}	Other Expenses Not Listed		
	Name	Description	
	Transmitter Training	Transmitter Training	

Transmitters

Cost Information

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

	Predetermined	Estimated	Estimated Cost		Actua
Description	Cost Estimate	Cost	Justification	Actual Cost	Justif
Primary Transmitter ULXTE-72	\$1,653,092.56	\$1,481,399.64		\$1,447,162.64	
Transmitter Decommissioning	\$24,975.00	\$24,975.00	Electrical Decommissioning of old transmitter added \$3225	N/A	
Additional Interior RF System	\$71,217.56	\$71,217.56	See attached uploaded Revised Transition Plan November 2018	\$71,217.56	
2nd Exciter	\$14,950.00	\$14,950.00	See attached uploaded Revised Transition Plan November 2018	\$14,950.00	
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 \$1,2 w chani due adc tran
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
Sub-total	\$1,653,092.56	\$1,481,399.64	N/A	\$1,447,162.64
Total for all systems	\$2,900,779.28	\$2,361,320.61	N/A	\$1,954,511.31

Components

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

Transformer 3 phase/480v - 150 KVA		
- 150 KVA	Component Description:	Line D on the invoice
	Amount:	\$4,991.81
	Component Description: Amount:	Line D on invoice \$4,991.81
	Component Description:	ULXTE-72. Change Order Quote Q- 79081 ASSY, 6-1/8 XFMR FLG, 50 to 75.
	Amount:	\$1,295.94
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. \$576,723.26
	Component Description:	Lines A, B, and E
	Amount:	on invoice \$658,413.76
	Component Description:	Line E: Installation and Proof

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

Antennas

Cost Information

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

Description Primary Antenna ATW30HS3- ESCX-34H	Predetermined Cost Estimate \$294,064.80	Estimated Cost \$275,850.05	Estimated Cost Justification	Actual Cost \$259,430.22	Actual Cost Justification
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	\$231,750.00	\$231,750.00	See attached uploaded Revised Transition Plan November 2018	\$215,330.17	N/A
Interior Line Sections	\$20,134.80	\$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

Sweep test of existing antenna	\$6,730.00	\$6,250.00	See attached uploaded Revised Transition Plan November 2018	\$6,250.00	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
Sub-total	\$294,064.80	\$275,850.05	N/A	\$259,430.22	N/A
Total for all systems	\$2,900,779.28	\$2,361,320.61	N/A	\$1,954,511.31	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: Amount:	ATW30HS3-ESCX- 34H & Mounts; 30% Prior to Shipment \$69,525.00
	Component Description: Amount:	ATW30HS3-ESCX- 34H & Mounts \$22,158.39
	Component Description:	ATW30HS3-ESCX- 34H & Mounts;
	Amount:	30% payment 30 days ARO \$54,121.78
	Component Description:	ATW30HS3-ESCX- 34H & Mounts
	Amount:	\$69,525.00

Component Description:	Transmission Line System; 30% Prior to Shipment
Amount:	\$6,040.44
Component Description:	Transmission Line System
Amount:	\$2,013.48
Component Description:	Transmission Line System;30% payment 30 days ARO
Amount:	\$6,040.44
Component Description:	Transmission Line System
Amount:	\$6,040.44
	Amount: Component Description: Amount: Component Description: Amount:

high power antennas (if not included in antenna base cost)	Component Description:	ATW30HS3-ESC 34H & Mounts; 30% Prior to
	Amount:	Shipment \$3,258.00
	Component Description:	ATW30HS3-ESC) 34H & Mounts
	Amount:	\$1,086.00
	Component Description:	ATW30HS3-ESC>
	Amount:	34H & Mounts \$3,258.00
	Component Description:	ATW30HS3-ESC> 34H & Mounts; 30% payment 30
	Amount:	days ARO \$3,258.00
Sweep test of existing antenna	Component Description:	System Sweep;
	Amount:	30% payment 30 days ARO \$1,875.00
	Component Description: Amount:	System Sweep \$625.00
	Component Description:	System Sweep; 30% Prior to
	Amount:	Shipment \$1,875.00
	Component Description:	System Sweep

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

Transmission Line

Cost Information

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	\$6,400.00	\$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	\$2,900,779.28	\$2,361,320.61	N/A	\$1,954,511.31	N/A

Components

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

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. \$497.00
	Amount: Component Description:

Tower Equipment and Rigging Costs

Cost Information

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description Primary Tower TOWER	Cost Estimate \$393,100.00	Cost \$304,729.00	Justification	Actual Cost \$154,729.00	Justification
Tall Tower (greater than 500')	\$210,500.00	\$135,879.00	See attached uploaded Revised Transition Plan November 2018	\$135,879.00	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
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Preliminary Inspection	\$12,000.00	\$12,000.00	See attached uploaded Revised Transition Plan November 2018	\$12,000.00	N/A
Sub-total	\$393,100.00	\$304,729.00	N/A	\$154,729.00	N/A
Total for all systems	\$2,900,779.28	\$2,361,320.61	N/A	\$1,954,511.31	N/A

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

Outside Professional Services

Cost Information

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		\$26,316.50	
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	\$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
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

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N//
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$6,375.00	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/J
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N//
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	N//

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
Sub-total	\$186,620.00	\$154,250.00	N/A	\$26,316.50	N/A
Total for all systems	\$2,900,779.28	\$2,361,320.61	N/A	\$1,954,511.31	N/A

Components

File Name	
Component Description: Amount:	Other engineering services in connection the repack of WUCF, including preliminary RF system design \$6,062.50
Information not provided.	
Information not provided.	
Information not provided.	
Component Description: Amount:	Prepare or Review FCC Form 399 for Reimbursement \$2,500.00
	Component Description: Amount: Information not provided. Information not provided. Information not provided. Component Description:

Project management of the transition	Component Description: Amount:	Review equipment for 399 Amendment \$265.00
	Component Description: Amount:	Prepare Schedule 387 Progress Report 2018 Q1 during January 1- 10, 2018 \$225.00
	Component Description: Amount:	Prepare Schedule 387 Progress Report 4Q2017 during January 1- 10, 2018 for WUCF \$225.00
	Component Description: Amount:	DTV Repack Services by Bob Gehman January 2020 for WUCF: Form 387 Transition Plan Progress Report "10 Days After" \$150.00

Component Description:	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
Component Description: Amount:	DTV Repack Services Oct 2019 for Station WUCF: Prep and submit Form 399. By Jeff Gehman Rate \$250 X 1.5 hours \$375.00
Component Description: Amount:	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: Amount:	DTV Repack Services by Jeff Gehman March 2019 for station WUCF: Form 399 Actual Cost invoice review, prep and submit \$200.00

Component Description:	DTV Repack services by Bob Gehman October 2019 for WUCF- TV: Form 387 Transition Plan Progress Report 2019 Q3 \$150.00
Component Description:	DTV Repack Services by Bob Gehman January 2020 for WUCF: Form 387 Transition Plan Progress Report 2019 Q4 \$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 \$75.00
Component Description:	Repack engineering services by Bob Gehman during August 2019. Rate \$250.00; Hours 0.5 \$125.00
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 \$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 \$400.00
Component Description:	DTV Repack Services by Bob Gehman July 2019 for WUCF: Form 387 Transition Plan Progress Report 2019 Q2 \$150.00
Component Description:	DTV Repack Services by Bob Gehman April 2019 for WUCF: Form 387 Transition Plan Progress Report 2019 Q1 \$150.00

Component Description:	DTV Repack Services by Bob Gehman January 2020 for WUCF: Form 387 Transition Plan Progress Report "5 Days After" \$150.00
Component Description:	DTV Repack Services by Bob Gehman November 2018: Amendment of FCC form 399 Reimbursement Budget \$3,339.00
Component Description: Amount:	DTV Repack Services: Form 387 Transition Plan Progress Report \$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
Component Description: Amount:	Preparation of FCC Schedule 387 Progress Report \$300.00

Component Description: Amount:	DTV Repack Services: 2018 Q4 Form 387 Transition Plan Progress Report preparation \$150.00
Component Description: Amount:	DTV Repack Services: Prep and submit For 387 Transition Plan Progress Report \$150.00
Information not provided.	
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
Component Description:	Perform engineering study for new channel assignment and antenna development \$4,500.00
	Amount: Component Description: Amount: Information not provided. Component Description: Amount:

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	Prepare engineering section of Form FCC Construction Permi Application for Main Facility \$3,000.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

Other Expenses

Cost Information

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	\$139,241.92	\$138,691.92		\$62,700.95	
Transmitter Training	\$9,191.00	\$9,191.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	\$1,620.00	N/A
Develop and air announcement of upcoming channel change	\$1,458.09	\$1,458.09	N/A	\$1,458.09	N/A
Equipment Storage	\$25,000.00	\$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	\$1,350.00	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	\$139,241.92	\$138,691.92	N/A	\$62,700.95	N/A
Total for all systems	\$2,900,779.28	\$2,361,320.61	N/A	\$1,954,511.31	N/A

Components

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

Equipment Delivery and Handling Charges	Component Description: Amount:	Freight \$13,067.17
	Component Description: Amount:	ACTUAL Freight / Shipping Costs \$26,975.66
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Bin Services: 15 yard Bin C/D \$450.00
	Component Description: Amount:	Bin Services: 15 yard Bin C/D \$450.00
	Component Description: Amount:	Bin Services: 15 yard Bin C/D \$450.00
Non-zoning permits	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	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	\$2,900,779.28	\$2,361,320.61	\$1,954,511.31	

Reimbursem	entestiatus	Response
	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	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.	
		 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. 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).
- 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.

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.	
I declare, under penalty of perjury, that I an an authorized representative of the above- named applicant for the Authorization(s) specified above.	n Van Nguyen Contracts and Grants Accountant I 05/15/2020

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 IMPRISIONMENT (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).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 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.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.	
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.	
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 05/15/2020

Attachments

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