Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **72076** | Service: **DTV** | Call Sign: **WFTV** | Channel: **35 (UHF)**

File Number: **0000028020**

FRN: **0014359285** | Date Submitted: **10/02/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WFTV, LLC Doing Business As: WFTV, LLC	Chief Engineer 490 EAST SOUTH STREET ORLANDO, FL 32801 United States	+1 (407) 841-9000	jeff.juniet@wftv.com	Limited Liability Company

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Jeff Juniet *Chief Engineer* *WFTV, LLC*	Chief Engineer 490 E. South Street Orlando, FL 32801 United States	+1 (407) 822-8410	Jeff.Juniet@wftv.com

Broadcaster Information and Transition Plan

Question	Response

Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	To maintain operations, we will need to replace the 2 backup TXs and re-tune the main TX. The channel combiner needs to add channel 35. The aux tower will need to be brought up to G standard and the aux antenna changed for a broadband antenna.

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	Retune Existing
	Use	Primary (Main)
	Ownership	Owned
	Owner	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	Harris
	Model	Power CD
	Year	2010

	Type	Inductive Output Tube
	IOT Power Type	Three
	Power capacity	90 kW

Primary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	3
New Mask Filter	Power	60 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

Primary Transmitter

Other Transmitter Costs

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

Information not provided.

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	Diamond CD
	Year	2010
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	7.5 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	8.5 kW
	Justification for New Transmitter	Replacement for the existing backup transmitter. The current TX is an unsupported model that cannot be retuned per the manufacturer.

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes

	Size	1 inches
	Length	300.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Auxiliary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup
	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	Sigma
	Year	1999
	Type	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	100 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.4 kW
	Justification for New Transmitter	The auxiliary transmitter will be needed at a second site to maintain on-air operations while modifications are performed at the main site.

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes

	Size	1 inches
	Length	300.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	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?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	56
	Design power capacity in use	100.0 %
	Lower Limit	470.00 MHz

Upper Limit	698.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	1000.0 kW
Manufacturer	DIELECTRIC
Model	TUM20-O4SP-14/56H-2-R-T
Year	2010

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
55454	WRDQ

Primary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	Additional Module
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
39
27
35

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Re-tuneing elbow complex	The existing main antenna needs the elbow complex tuned/optimized for the new channel.

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Class A
	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)	295.0 kW

	Manufacturer	
	Model	TFU-24DSB-E
	Year	2011

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	8
	Lower Limit	470.00 MHz
	Upper Limit	860.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	
	Model	ETU-8U4-

		HTP1C-27/35/39
	Year	2017
	Justification for New Antenna	The existing antenna is single channel and must be replaced to accommodate new assigned channel.

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
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

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Auxiliary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1350 feet per run

Auxiliary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	500 feet per run
	Justification for New Transmission Line	See attached exhibit titled "Sept. Amendment-Revised Repack Process for WFTV Orlando".

Auxiliary 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

Auxiliary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1214939
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	28° 34' 08.2" N-
	Longitude (NAD83)	081° 03' 15.6" W-
	Overall Structure Height	1612.84 feet
	Support Structure Height	1609.89 feet
	Ground Elevation Above Mean Sea Level (AMSL)	61.68 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	IWG Towers Assets II, LLC
	Date Constructed	11/20/2000

Auxiliary 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:	Major Reinforcements needed

Auxiliary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Auxiliary Tower

Other Tower Expenses Not Listed

Name	Description
St Cloud tower	Modifications are needed to bring the tower up to the G standard. See attached plan for additional details.

Primary Tower

Add 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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1214939
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	28° 34' 08.2" N-
	Longitude (NAD83)	081° 03' 15.6" W-
	Overall Structure Height	1612.84 feet
	Support Structure Height	1609.89 feet
	Ground Elevation Above Mean Sea Level (AMSL)	61.68 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	IWG Towers

		Assets II, LLC
	Date Constructed	11/20/2000

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
55454	WRDQ	DTV
23443	WDBO-FM	FM
48716	WWKA	FM

Other Types of Users

Users
Wireless I'net
Two-Way Radio

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:	No reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services	Are helicopter services required?	No

	Required		

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	100
	Explanation	Coordination of building and construction permits.
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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes

	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	35
	Justification	RF Consulting Engineer - To determine correct mask filter to avoid interference RF Consulting Engineer - 10-30 days to test for interference

		after mask filter is installed

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Information 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	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
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

Information not provided.

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 C Justifica
Primary Transmitter Power CD	**$947,400.00**	**$659,010.25**		**$191,336.75**	
Three IOT system (90 kW)	$475,500.00	$574,010.25	Pricing is per manufacturer's quote.	$191,336.75	N/A
3 IOT Tubes	$382,500.00	$0.00	Price of tubes is included in the price of retuning the main transmitter (Quote_GA-00018301r1_WFTV PWR90D3 Channel Change 2016-11-29).	N/A	N/A
60 kW mask filter	$89,400.00	$85,000.00	N/A	N/A	N/A
Auxiliary Transmitter ULXTE-12	**$666,390.00**	**$478,955.93**		**$103,978.11**	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	$494,500.00	$315,265.93	N/A	$103,978.11	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$35,000.00	N/A	N/A	N/A
1" Rigid Conduit and	***$5,390.00***	$5,390.00	N/A	N/A	N/A

Wiring					
25 Ton system	$91,500.00	$87,000.00	N/A	$0.00	N/A
Auxiliary Transmitter ULXTE-50	**$1,118,890.00**	**$1,162,542.36**		**$407,954.79**	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	$947,000.00	$929,864.36	Per Manufacturer's quote and includes RF system and switching	$309,954.79	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$35,000.00	N/A	N/A	N/A
1" Rigid Conduit and Wiring	***$5,390.00***	$5,390.00	N/A	N/A	N/A
25 Ton system	$91,500.00	$87,000.00	N/A	$90,500.00	Per th attache quote "HVAC f 5 tons update the cos for equipme an installati of the require AC total 90,500.
Switchgear - industrial 800 amp	$38,200.00	$105,288.00	The transmitter for the Ft. Christmas site will require a new service entrance and the associated switchgear.	$7,500.00	N/A
Sub-total	$2,732,680.00	$2,300,508.54	N/A	$703,269.65	N/A
Total for all	$5,086,555.00	$3,706,476.54	N/A	$1,019,454.38	N/A

systems

Components

Actual Information Description	File Name
Three IOT system (90 kW)	**Component Description:** Deposit payment for retuning the main transmitter to new channel including RF system and new IOTs. **Amount:** $191,336.75
3 IOT Tubes	Information not provided.
60 kW mask filter	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	**Component Description:** Auxiliary Transmitter System Design **Amount:** $127.50 **Component Description:** deposit invoice for replacement aux transmitter. ULXTE-12 **Amount:** $103,850.61
Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
1" Rigid Conduit and Wiring	Information not provided.
25 Ton system	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	

	Component Description: **Amount:**	invoice for the deposit on replacement aux transmitter. ULXTE-50 $309,954.79
Transformer 3 phase/480v - 300 KVA	Information not provided.	
1" Rigid Conduit and Wiring	Information not provided.	
25 Ton system	**Component Description:** **Amount:** **Component Description:** **Amount:**	Initial invoice /deposit for HVAC system equipment and installation for Aux site. $21,500.00 Final invoice for HVAC equipment and installation for aux site. $69,000.00
Switchgear - industrial 800 amp	**Component Description:** **Amount:**	install of switch gear for HVAC $7,500.00

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
Primary Antenna TUM20-O4SP-14 /56H-2-R-T	**$864,930.00**	**$96,235.00**		**$10,234.38**	
Re-tuneing elbow complex	***$6,000.00***	$6,000.00	Elbow complex tuning will require an RF Engineer and Tower Crew.	N/A	N/A
Adding a module to existing combiner (without antenna)	$84,200.00	$80,000.00	N/A	N/A	N/A
Sweep test of existing antenna	$6,730.00	$10,235.00	Pricing is from quotes and work performed by RF Engineer.	$10,234.38	The initial sweep of the line and antenna verified the power handling and available channels of the line. the final sweep verified the system compatibility with the newly assigned channel.

UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	$768,000.00	$0.00	N/A	N/A	N/A
Auxiliary Antenna ETU-8U4-HTP1C-27 /35/39	**$253,730.00**	**$241,400.00**		**$182,409.38**	
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	$247,000.00	$235,000.00	N/A	$178,528.10	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$3,881.28	N/A
Sub-total	$1,118,660.00	$337,635.00	N/A	$192,643.76	N/A
Total for all systems	$5,086,555.00	$3,706,476.54	N/A	$1,019,454.38	N/A

Components

Actual Information Description	File Name
Re-tuneing elbow complex	Information not provided.
Adding a module to existing combiner (without antenna)	Information not provided.
Sweep test of existing	

antenna	**Component Description:**	Initial sweep of transmission lines and antenna.
	Amount:	$5,729.41
	Component Description:	Final sweep of transmission line and antenna to verify compatibility with newly assigned channel.
	Amount:	$4,504.97
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	**Component Description:**	Invoice for 45% of total w/order for Aux antenna. TUA-C1-8/8H-1-T DIRECTIONAL ANTENNA FOR D35
	Amount:	$86,776.34
	Component Description:	payment for antenna and mounting pole
	Amount:	$775.42
	Component Description:	INTERIM/AUX TERMS: 45% PRIOR TO SHIPMENT
	Amount:	$86,776.34

	Component Description: **Amount:**	Auxiliary Antenna Design $4,200.00
Sweep test of existing antenna	**Component Description:** **Amount:**	Sweep of the line at the aux site to confirm power handling and channel compatibility. $3,881.28

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
Auxiliary Transmission Line	**$71,000.00**	**$53,993.00**		**$48,593.70**	
Rigid Transmission Line - copper, 4 1 /16"	$71,000.00	$53,993.00	N/A	$48,593.70	N/A
Sub-total	$71,000.00	$53,993.00	N/A	$48,593.70	N/A
Total for all systems	$5,086,555.00	$3,706,476.54	N/A	$1,019,454.38	N/A

Components

Actual Information Description	File Name	
Rigid Transmission Line - copper, 4 1/16"	**Component Description:**	WFTV ORLANDO, FL AUX ST. CLOUD 41/8" TRANSMISSION LINE FOR AUX ANTENNA. RE: QUOTE # 700411CMZ TERMS: 45% WITH ORDER.
	Amount:	$24,296.85

Component Description:	WFTV ORLANDO, FL AUX ST. CLOUD 41/8" TRANSMISSION LINE FOR AUX ANTENNA. RE: QUOTE # 700411CMZ TERMS: 45% PRIOR TO SHIP.
Amount:	$24,296.85

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	**$223,100.00**	**$12,000.00**		**$11,900.00**	
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	$11,900.00	N/A
Tall Tower (greater than 500')	$210,500.00	$0.00	N/A	N/A	N/A
Auxiliary Tower TOWER	**$644,100.00**	**$708,080.00**		**$15,460.00**	
Structural engineering tower load study for well documented tower	$12,600.00	$15,460.00	Pricing is from structural engineering study by TCI.	$15,460.00	N/A
Tall Tower (greater than 500')	$210,500.00	$220,000.00	Estimate from tower engineering firm to rig and unrig the tower for the required upgrade work.	N/A	N/A
Major tower reinforcement /modifications	$421,000.00	$472,620.00	This work will bring the tower up to G standard.	$0.00	The pricing is based on the quote from the structural

					engineering firm.
St Cloud tower	***$0.00***	$0.00	N/A	N/A	N/A
Sub-total	$867,200.00	$720,080.00	N/A	$27,360.00	N/A
Total for all systems	$5,086,555.00	$3,706,476.54	N/A	$1,019,454.38	N/A

Components

Actual Information Description	File Name
Structural engineering tower load study for well documented tower	**Component Description:** structural analysis, inspection and inventory of tower **Amount:** $11,900.00
Tall Tower (greater than 500')	Information not provided.
Structural engineering tower load study for well documented tower	**Component Description:** structural analysis, inspection and inventory of tower **Amount:** $15,460.00
Tall Tower (greater than 500')	Information not provided.
Major tower reinforcement /modifications	Information not provided.
St Cloud tower	Information not provided.

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$222,025.00**	**$219,875.00**		**$34,086.90**	
Additional Field Engineering Service, 35 Days	***$65,000.00***	$65,000.00	RF Consulting Engineer - To determine correct mask filter to avoid interference at 5-days & 10-30 days to test for interference after mask filter is installed	$9,742.50	N/A
RF Exposure Measurements	$21,050.00	$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to	$2,365.00	$2,250.00	N/A	N/A	N/A

Cover Application					
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	$4,210.00	$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$4,315.80	N/A
RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	$1,580.00	$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	$0.00	N/A
RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	$2,105.00	$2,000.00	N/A	$0.00	Invoiced hou from the consultant f engineering documentati
Prepare engineering	$3,155.00	$3,000.00	N/A	$2,415.00	N/A

section of FCC Form 2100 (main), Construction Permit Application					
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$5,460.00	N/A
Prepare and or review reimbursement form	$2,630.00	$8,625.00	Quote from consulting engineer.	$12,153.60	Legal and Engineering fees incurre for preparation review, and filing of reimburseme for 399.
Project management of the transition	$15,800.00	$15,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	N/A
Sub-total	$222,025.00	$219,875.00	N/A	$34,086.90	N/A
Total for all systems	$5,086,555.00	$3,706,476.54	N/A	$1,019,454.38	N/A

Components

Actual Information Description	File Name
Additional Field Engineering Service, 35 Days	

	Component Description: **Amount:**	Additional engineering services for CMG amount split between 10 stations $7,042.50
	Component Description: **Amount:**	additional Engineering services $2,700.00
RF Exposure Measurements	Information not provided.	
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 -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Legal fees for preparation ans filing of construction permit for main transmission site. $4,315.80
RF Consulting Engineer Fees- Aux Antenna:	Information not provided.	

Prepare engineering section of FCC Form 2100, License to Cover Application		
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Preparation of construction permit. $2,250.00
	Component Description: **Amount:**	Preparation of constriction permit for Cox Media Group. Costs split between ten stations. $165.00
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Main antenna system design and analysis $5,325.00
	Component Description: **Amount:**	Main antenna system design and analysis for Cox Media Group. Amount split between ten stations $135.00
Prepare and or review		

reimbursement form

Component Description:	Legal fees incurred for preparation, review, and filing of reimbursement for 399.
Amount:	$3,291.20
Component Description:	Legal fees incurred for preparation, review, and filing of reimbursement for 399.
Amount:	$1,047.20
Component Description:	Legal fees incurred for preparation, review, and filing of reimbursement for 399.
Amount:	$3,509.50
Component Description:	Review Reimbursement submission
Amount:	$1,050.00
Component Description:	Legal fees incurred for preparation, review, and filing of reimbursement for 399.
Amount:	$756.90
Component Description:	review Reimbursement submission for 10 Cox Media Group Locations. Amount is split between ten stations
Amount:	$30.00

	Component Description: **Amount:** **Component Description:** **Amount:**	review Reimbursement submission for 2 Cox Media Group Locations. Amount is split between two stations $150.00 Legal fees incurred for preparation, review, and filing of reimbursement for 399. $2,318.80
Project management of the transition	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	

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 Co Justificat
Other Expenses	**$74,990.00**	**$74,385.00**		**$13,500.37**	
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$1,070.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
Local Zoning	***$1,500.00***	$1,500.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$10,000.00***	$10,000.00	Removal of old equipment and high voltage transformers from Ft Christmas and St Cloud sites.	$2,827.00	N/A
Equipment Delivery and Handling Charges	***$42,300.00***	$42,300.00	delivery and storage costs per transmitter manufacturer's quotes.	$10,673.37	N/A
Equipment Storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	***$1,500.00***	$1,500.00	Costs for the production of on-air and website announcements.	N/A	N/A
MVPD Notification of Channel Change	***$1,500.00***	$1,500.00	N/A	N/A	N/A
Sub-total	$74,990.00	$74,385.00	N/A	$13,500.37	N/A
Total for all systems	$5,086,555.00	$3,706,476.54	N/A	$1,019,454.38	N/A

Components

Actual Information Description	File Name	
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
Local Zoning	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	**Component Description:** **Amount:**	removal and disposal of high voltage transformers (3) $2,827.00
Equipment Delivery and Handling Charges		

	Component Description: **Amount:**	FREIGHT, SHIPPING, AND HANDLING FOR PANEL ANTENNA AND MOUNTING POLE. WFTV AUX SITE. $10,673.37
Equipment Storage	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$5,086,555.00	$3,706,476.54	$1,019,454.38

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	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.	
	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. 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 am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Jeffrey M Juniet , Juniet .** *Director of Engineering* 10/02/2018

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).	
	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. 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) .
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.
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.	

Attachments