

(REFERENCE COPY - Not for submission)

#### FCC Form 399: Reimbursement Request

72076 Service: DTV Channel: 35 (UHF) Facility Call ID:

Sign: 0000028020

Number:

File

FRN: 0014359285 Date 09/28

> Submitted: /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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email	
[Confidential]				

#### **Preparer** Contact Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email
<b>Jeff Juniet</b> 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**

S	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	Harris
Manufacturer and Type	Model	Power CD
	Year	2010

Туре	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
	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 Information not provided.

**Other Transmitter Cost Not Listed** 

#### 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	
Manufacturer and Type	Model	Diamond CD
	Year	2010
	Туре	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
	Туре	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

**Other Transmitter Cost Not Listed** 

Auxiliary
Transmitter 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
	Туре	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
	Туре	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

**Other Transmitter Cost Not Listed** 

Auxiliary
Transmitter 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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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
	Туре	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.

#### **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	Class	Class A
Manufacturer and Type	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)	295.0 kW

Manufacturer	
Model	TFU- 24DSB-E
Year	2011

#### **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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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.

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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?	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

**Other Antenna Cost Not Listed** 

Information not provided.

Transmission <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

#### Auxiliary Transmission

#### **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	Manufacturer	
Line Manufacturer and Type	Туре	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

#### **New Transmission Line**

#### Auxiliary Transmis

issio	n 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
		Туре	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
		Justification for New Transmission Line	See attached exhibit titled "Sept. Amendment-Revised Repack Process for WFTV Orlando".

Auxiliary Other Transmission Line Expenses Not Listed

Transmission loine tion 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	Do you have a tower registration number?	Yes
Registration	ASR Number	1214939
Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	28° 34' 08.2" N-
1983))	Longitude (NAD83)	081° 03' 15.6" W-
	Overall Structure Height	1612.84 fee
	Support Structure Height	1609.89 fee
	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
Registration	ASR Number	1214939
Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	28° 34' 08.2" N-
1983))	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
48716	WWKA	FM
23443	WDBO-FM	FM
55454	WRDQ	DTV

#### 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

Section	Question	Response
Services Costs 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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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 -

after mask filter is installed

Outside
Professional Services Expenses Not Listed
Professional Services ©qstsided.

# 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 Not Listed

**Expenses** 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 Co
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		\$400,454.79	
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
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.	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 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 the attached quote "HVAC for 5 tons updated" the costs for equipmen an installation of the required AC totaler 90,500.00
Sub-total	\$2,732,680.00	\$2,300,508.54	N/A	\$695,769.65	N/A
Total for all	\$5,086,555.00	\$3,706,476.54	N/A	\$981,767.38	N/A

#### Components

Actual Information Description	File Name	
Three IOT system (90 kW)		
	Component Description:  Amount:	Deposit payment for retuning the main transmitter to new channel including RF system and new IOTs. \$191,336.75
		φ191,330.73
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:	deposit invoice for replacement aux transmitter.
	Amount:	ULXTE-12 \$103,850.61
	Component Description:	Auxiliary Transmitter System Design
	Amount:	\$127.50
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
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	Component Description:  Amount:	Final invoice for HVAC equipment and installation for aux site. \$69,000.00
	Component Description:  Amount:	Initial invoice /deposit for HVAC system equipment and installation for Aux site. \$21,500.00

## **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	
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
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.

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
Auxiliary Antenna ETU-8U4- HTP1C-27 /35/39	\$253,730.00	\$241,400.00		\$182,409.38	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,881.28	N/A
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
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	\$981,767.38	N/A

Actual Information Description	File Name
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	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
	Amount:	assigned channel. \$4,504.97
Re-tuneing elbow complex	Information not provided.	
Sweep test of existing antenna	Component Description:	Sweep of the line at the aux site to confirm power handling and channel
	Amount:	compatibility. \$3,881.28
UHF - High Power Top Mount (200-1000 kW), One	Component Description:	INTERIM/AUX
station antenna, horizontally polarized	, and the second process of the second proce	TERMS: 45% PRIOR TO SHIPMENT
	Amount:	\$86,776.34
	Component Description:	Auxiliary Antenna Design
	Amount:	\$4,200.00

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

## **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	\$981,767.38	N/A

File Name	
Component Description:  Amount:	WFTV ORLANDO, FL AUX ST. CLOUD 41/8" TRANSMISSION LINE FOR AUX ANTENNA. RE: QUOTE # 700411CMZ TERMS: 45% WITH ORDER. \$24,296.85
	Component Description:

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		\$0.00	
Tall Tower (greater than 500')	\$210,500.00	\$0.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	N/A	N/A
Auxiliary Tower TOWER	\$644,100.00	\$708,080.00		\$0.00	
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.
Structural engineering tower load study for well	\$12,600.00	\$15,460.00	Pricing is from structural engineering	N/A	N/A

documented tower			study by TCI.		
St Cloud tower	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$867,200.00	\$720,080.00	N/A	\$0.00	N/A
Total for all systems	\$5,086,555.00	\$3,706,476.54	N/A	\$981,767.38	N/A

### Components

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
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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	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
Project management of the transition	\$15,800.00	\$15,000.00	N/A	N/A	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 incurred for preparation, review, and filing of reimbursement for 399.
Perform	\$7,360.00	\$7,000.00	N/A	\$5,460.00	N/A

engineering study for new channel assignment and antenna development					
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,415.00	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 hours from the consultant for engineering documentatior
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$0.00	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	\$981,767.38	N/A

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.
Prepare request for Special Temporary	Information not provided.	

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover	Information not provided.	
Application		
Project management of the transition	Information not provided.	
Prepare and or review reimbursement form	Component Description:	Legal fees incurre for preparation, review, and filing reimbursement for 399.
	Amount:	\$756.90
	Component Description:	Legal fees incurre for preparation, review, and filing reimbursement fo 399.
	Amount:	\$3,291.20
	Component Description:	Review Reimbursement submission
	Amount:	\$1,050.00
	Component Description:	Legal fees incurre for preparation, review, and filing reimbursement fo 399.
	Amount:	\$2,318.80

Component Description: Legal fees incurred

for preparation, review, and filing of reimbursement for

399.

**Amount:** \$3,509.50

Component Description: Legal fees incurred

for preparation, review, and filing of reimbursement for

399.

**Amount:** \$1,047.20

**Component Description:** review

Reimbursement submission for 10 Cox Media Group Locations. Amount is split between ten

stations

**Amount:** \$30.00

Component Description: review

Reimbursement submission for 2 Cox Media Group Locations. Amount is split between two

stations

**Amount:** \$150.00

Perform engineering study for new channel assignment and antenna development

Component Description: Main antenna

system design and

analysis

**Amount:** \$5,325.00

	Component Description:  Amount:	Main antenna system design and analysis for Cox Media Group. Amount split between ten stations \$135.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:  Amount:	Preparation of constriction permit for Cox Media Group. Costs split between ten stations. \$165.00
	Component Description: Amount:	Preparation of construction permit. \$2,250.00
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), License to Cover	Information not provided.	

Application

## **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
Other Expenses	\$74,990.00	\$74,385.00		\$10,673.37	
MVPD Notification of Channel Change	\$1,500.00	\$1,500.00	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
Equipment Storage	\$5,000.00	\$5,000.00	N/A	N/A	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
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.	N/A	N/A
Local Zoning	\$1,500.00	\$1,500.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
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
Sub-total	\$74,990.00	\$74,385.00	N/A	\$10,673.37	N/A
Total for all systems	\$5,086,555.00	\$3,706,476.54	N/A	\$981,767.38	N/A

Actual Information Description	File Name	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:  Amount:	FREIGHT, SHIPPING, AND HANDLING FOR PANEL ANTENNA AND MOUNTING POLE. WFTV AUX SITE. \$10,673.37
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Local Zoning	Information not provided.	
FCC Filing Fees - Special Temporary Authorization	Information not provided.	

request	
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.

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,086,555.00	\$3,706,476.54	\$981,767.38

Reimbursem	entestiatus	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

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.
- 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 abovenamed applicant for the Authorization(s) specified above. Jeffrey M Juniet Director of Engineering

09/28/2018

#### **Attachments**