

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 31590 Service: DTV Call WCTV Channel: 20 (UHF)

ID:

Sign:

File **0000028726** 

Number:

FRN: **0018223693** Date **08/04** 

Submitted: /2020

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: KNOXVILLE TV LLC	WCTV 1801 HALSTEAD BLVD. Talahassee, FL 32309 United States	+1 (404) 504-9828	Robert. Folliard@gray. tv	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
Samuel Hariton Widelity	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.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.	No
Briefly describe transition plan	WCTV will be changing the antenna, line and transmitter on the main broadcast site. WCTV will utilize the existing auxiliary site on a different tower as an interim site.

### **Transmitters**

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

# Primary Transmitter

# **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter	Type of change	Purchase New
Description	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	CDUK3100UPG3
	Year	2005
	Туре	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	90.0 kW

# Primary Transmitter

### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47.2 kW
	Justification for New Transmitter	This is an old Harris IOT Transmitter that will not be able to be retuned. See GatesAir memo 1/1 /2017.

# Primary Transmitter

### **Other Transmitter Costs**

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

	Length	N/A
	Other Electrical Service	Yes
	Description	The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
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	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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
Concrete Pads	Concrete pads required for new heat exchangers for the new transmitter.

HVAC	Undetermined tonnage and duct work required for plumbing new transmitter installation.
Primary Transmitter - Installation	Primary Transmitter - Installation
Building Renovations	Interior renovations required for installation of new transmitter.

### Interim Transmitter

### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	UAXTE 12R44
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	7.2 kW
	Justification for New Transmitter	Necessary to power interim facility while new main antenna is installed.

### Interim Transmitter

### **Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	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	Yes

	Description	The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
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	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim Transmitter **Other Transmitter Cost Not Listed** 

**Transmitter** Information not provided.

#### **Antennas**

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

### **Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	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	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)	1000.0 kW

Manufacturer	
Model	TFU- 30DSC- RO4
Year	2005

### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	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	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)	750.0 kW
	Manufacturer	

Model	TFU-30GTH /VP-R04
Year	2019
Justification for New Antenna	The old antenna is an Side Mount and cannot be retuned and used a s a top mount

### **Other Antenna Costs**

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?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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### **Other Antenna Cost Not Listed**

Name	Description
Top Plate Adapter	Adapter for the top of the tower

### Interim Antenna

### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Type	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)	100.0 kW
	Manufacturer	
	Model	TLP24B CH20
	Year	2017

Justification for New Antenna	Needed so that WCTV
	can
	continue to
	operate
	while the
	new main
	antenna,
	line and
	transmitter
	are
	installed.
	stanoai

### Interim Antenna

### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	4
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	Feed Line Size	3 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an 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

# Enter a list of RF channel numbers.

RF Channel Number
17
20
30
33

### Interim Antenna

#### **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

# Primary Transmission Line

### **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	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	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1970 feet per run

### **New Transmission Line**

Primary
<b>Transmiss</b>

section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Туре	Rigid
	Diameter	6 1/8 inche
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	78 feet per
	Justification for New Transmission Line	Moving from a side mount to a top mount antenna, using the existing transmission line and buying 78 additional feet of it.

Primary Other Transmission Line Expenses Not Listed

Transmission Line tion not provided.

### Interim

### **New Transmission Line**

Transmission	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Flexible Air
		Diameter	3 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
	Length	870 feet per run	
		Justification for New Transmission Line	Installing interim antenna

Other Transmission Line Expenses Not Listed

Interim
Transmission Line 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

### **Add Tower**

Section	Question	Response
Existing Tower  Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Backup Tower
	Ownership	Owned
	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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1031203
Coordinates (NAD83 (	Latitude (NAD83)	30° 34' 28.0" N-
North American Datum of 1983))	Longitude (NAD83)	084° 12' 09.0" W-
	Overall Structure Height	898.94 feet
	Support Structure Height	833.32 feet
	Ground Elevation Above Mean Sea Level (AMSL)	144.36 feet
	Structure Type	GTOWER - Guyed

	Structure Used for Communication Purposes
Tower Owner	Gray Television Group, Inc.
Date Constructed	01/01/1973

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
3032	WVUP-CD	DTV

### Auxiliary Tower

#### **Tower Modification Costs**

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly 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
Structural Load Study	Structural engineering tower load study for poorly documented tower

# Primary Tower

# **Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1019981
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	30° 40′ 14.0" N-
	Longitude (NAD83)	083° 56' 26.0" W-
	Overall Structure Height	1999.98 feet
	Support Structure Height	1925.83 feet
	Ground Elevation Above Mean Sea Level (AMSL)	221.78 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Gray Television

	Group, Inc.
Date Constructed	01/01/1987

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
93356	WKVH	FM
21801	WFSU-TV	DTV

### Primary Tower

#### **Tower Modification Costs**

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

### Primary Tower

### **Tower Rigging Costs**

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

### Primary Tower

### Other Tower Expenses Not Listed

Name	Description
Structural Load Study	

Structural engineering tower load study for poorly documented tower

### Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	Strategic Support
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	No
	Quantity	N/A
	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	No
	Quantity	N/A
	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	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

### Outside Professional

# Other Professional Services Expenses Not Listed

I Services Costs	Description
Attorney Fees - Other Matters	Legal Services

# Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	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

Name	Description
Site Security	Security for site while equipment is being stored for sites.
Tree Removal	Removing trees for tag line for tower work

# **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	Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter UAXTE 12R44	\$450,580.04	\$476,145.84		\$261,713.01	
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$36,965.80	per ASCO SPD Quote and Weston Trawick Quote	\$0.00	N/A
UHF - Air Cooled Solid State Transmitter 7.2 kW	\$256,588.04	\$256,588.04	see Estimated Cost Justification WCTV-180- New Interim Transmitter v0	\$256,588.01	N/A
UHF inside RF system including switching	\$147,500.00	\$150,500.00	State and local taxes	\$0.00	N/A
Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal	\$32,092.00	\$32,092.00	see Estimated Cost Justification WCTV-180- Electrical Service New Interim Transmitter v0	\$5,125.00	N/A

guidance from local electrical contractors.					
Primary Transmitter ULXTE-72	\$3,181,417.99	\$2,915,095.84		\$1,373,465.39	
Building Renovations	\$43,750.57	\$43,750.57	see Estimated Cost Justification WCTV-110- Building renovations New 1st Primary Transmitter v0	\$37,824.19	N/A
Concrete Pads	\$2,150.00	\$2,150.00	N/A	N/A	N/A
Primary Transmitter - Installation	\$727.84	\$727.84	see Estimated Cost Justification WCTV-110- New 1st Primary Transmitter Installation v0	\$446.38	N/A
HVAC	\$76,502.60	\$76,502.60	John D Jones AC Heating & Refrigeration proposal 400127 and Weston Trawick proposals dated Aug 24, 2018 and Nov 19, 2019 (\$52,700 + \$16,977 + \$6,825.60)	\$49,362.60	N/A
Other Electrical	\$50,987.00	\$50,987.00	see Estimated	\$42,354.37	N/A

Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.			Cost Justification WCTV-110- Electrical Service New 1st Primary Transmitter v2		
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,234,314.85	Per GatesAir Quote Q- 81345	(\$254,022.13)	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$9,163.00	GatesAir Quote Q- 81345	\$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 76 kW	\$1,497,499.98	\$1,497,499.98	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$1,497,499.98	N/A
Sub-total	\$3,631,998.03	\$3,391,241.68	N/A	\$1,635,178.40	N/A
Total for all systems	\$5,770,049.86	\$5,580,998.02	N/A	\$2,388,226.12	N/A

### Components

Actual Information  Description  F	File Name
Service entrance 3 phase /800 amp/208 volt	Information not provided.

UHF - Air Cooled Solid State Transmitter 7.2 kW **Component Description:** A. Transmitter Amount: \$68,799.27 **Component Description:** Transmitter, Mask Filter System. Rf Accessories, Installation and Proof **Amount:** \$166,015.29 **Component Description:** Transmitter **Amount:** \$21,773.45 UHF inside RF system Information not provided. including switching Other Electrical Service: The new main transmitter **Component Description:** Electrical will require reconfiguration Engineering of the electrical service on Services site. The electrical work \$5,125.00 Amount: cost has been estimated based on verbal guidance from local electrical contractors. **Building Renovations Component Description:** 2'X4' #2310 Radar Amount: \$297.13 **Component Description:** 2x4 120V LED Troffer w/ Prismatic LE **Amount:** \$295.02 RADAR SO EDGE **Component Description: CELING** Amount: \$686.99

**Component Description:** Main Beam **Amount:** \$35.11

Component Description: 398095 WCTV

Metcalf Transmitter

**Amount:** \$12,716.25

Component Description: Removing

reimbursement request // Radar

SO Edge

Amount: N/A

Component Description: No longer seeking

reimbursement // 2'x4' #2310 Radar Sq Edge Ceiling

64SF

Amount: N/A

Component Description: Contract Billing

**Amount:** \$23,313.13

**Component Description:** 9/16 X3-1/4 PFJ

**Amount:** \$83.93

Component Description: No longer seeking

reimbursement // 9 /16 x3-1/4 PFJ WM713 Base

Amount: N/A

Component Description: Radar SO Edge

**Amount:** \$396.63

Concrete Pads Information not provided.

Primary Transmitter -

Installation		
	Component Description: Amount:	Service Fee \$158.69
	Component Description: Amount:	Service Fee \$287.69
HVAC		
	Component Description: Amount:	Electrical \$16,977.00
	Component Description:	Install 2 Hail Coil guards on 2 split systems.
	Amount:	\$2,660.00
	Component Description: Amount:	Contract Billing \$16,977.00
	Component Description:	Mercalf Buildings
	Amount:	\$22,900.00
	Component Description:	Materials, Crew Hours Labor
	Amount:	\$6,825.60
Other Electrical Service: The new main transmitter		
will require reconfiguration of the electrical service on	Component Description:	WCTV-110- Electrical Service New 1st Primary
site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	Amount:	Transmitter \$12,716.25
	Component Description: Amount:	Electrical Engineer \$6,325.00

	Component Description:  Amount:	WCTV-110- Electrical Service New 1st Primary Transmitter \$23,313.12
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	Credit Memo (\$254,022.13)
Transformer 3 phase/480v - 300 KVA	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 76 kW	Component Description:	Transmitter, Mask Filter System, RF Accessories, Install & Proof
	Amount:	\$1,497,499.98

#### **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
Interim Antenna TLP24B CH20	\$203,370.00	\$185,476.80		\$116,344.80	
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$8,624.00	Quote JEHQ1317	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$132,617.80	Please see attached WCTV Combiner - DTVPros Quote JEHQ1704 and Gray PO 1944 which includes taxes and freight.	\$94,227.20	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,200.00	N/A
UHF - Lower Power Side Mount, One Station antenna . medium power (50-	\$103,100.00	\$37,835.00	per DTVPros quote JEHQ1672	\$18,917.60	N/A

200 kW),
elliptically
or
circularly
polarized

polarized					
Primary Antenna TFU-30GTH /VP-R04	\$328,082.00	\$271,507.26		\$191,514.26	
Top Plate Adapter	\$19,552.00	\$19,552.00	JEHQ1267- 04	\$15,641.60	N/A
Sweep test of existing antenna	\$6,730.00	\$9,868.26	see Estimated Cost Justification WCTV-210- Sweep test New Primary Antenna v0	\$8,538.26	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$227,143.00	JEHQ1267- 04	\$157,120.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$14,944.00	JEHQ1267- 04	\$10,214.40	N/A
Sub-total	\$531,452.00	\$456,984.06	N/A	\$307,859.06	N/A
Total for all systems	\$5,770,049.86	\$5,580,998.02	N/A	\$2,388,226.12	N/A

#### Components

Actual Information		
Description	File Name	
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	
New combiner, cost per channel (without antenna)	Component Description:	RF System 4 Channel
	Amount:	\$94,227.20
Sweep test of existing antenna	Component Description:	WCTV-280-
	Amount:	Sweep test New Interim Antenna \$3,200.00
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly	Component Description:	UHF - LOW POWER SIDE MOUNT
polarized	Amount:	\$18,917.60
Top Plate Adapter		
	Component Description:	WCTV-210-Top plate adapter New Primary Antenna
	Amount:	\$5,865.60
	Component Description:	WCTV-210-Top plate adapter New Primary Antenna
	Amount:	\$4,888.00
	Component Description:	WCTV-210-Top plate adapter New Primary Antenna
	Amount:	\$4,888.00

Sweep test of existing antenna

Component Description: WCTV-210-

Sweep test New Primary Antenna

**Amount:** \$1,600.00

Component Description: WCTV-210-

Sweep test New Primary Antenna

**Amount:** \$1,920.00

Component Description: WCTV-210-

Sweep test New Primary Antenna

**Amount:** \$1,600.00

Component Description: Engineering field

services to assess

transmitter \$3,418.26

Amount:

Amount:

UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized

Component Description: UHF-High Power

Top Mount (200-

1000KW) \$58,920.00

Component Description: UHF- HIGH

POWER TOP MOUNT

**Amount:** \$49,100.00

Component Description: UHF- HIGH

POWER TOP MOUNT

**Amount:** \$49,100.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)

Component Description: WCTV-210-Elbow

complex New Primary Antenna

**Amount:** \$3,192.00

Component Description: WCTV-210-Elbow

complex New

Primary Antenna

**Amount:** \$3,192.00

Component Description: WCTV-210-Elbow

complex New Primary Antenna

**Amount:** \$3,830.40

#### **Transmission Line**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$51,330.00	\$37,835.20		\$18,519.17	
Flexible Air Transmission Line - dielectric, 3"	\$51,330.00	\$37,835.20	per DTVPros quote JEHQ1672	\$18,519.17	N/A
Primary Transmission Line	\$15,756.00	\$14,966.00		\$10,198.69	
Rigid Transmission Line - copper, 6 1/8"	\$15,756.00	\$14,966.00	JEHQ1267- 04	\$10,198.69	N/A
Sub-total	\$67,086.00	\$52,801.20	N/A	\$28,717.86	N/A
Total for all systems	\$5,770,049.86	\$5,580,998.02	N/A	\$2,388,226.12	N/A

#### Components

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 3"	Component Description: Amount:	WCTV-380-New Interim Transmission Line \$18,519.17
Rigid Transmission Line - copper, 6 1/8"		

Component Description: WCTV-310-New

Primary

Transmission Line

**Amount:** \$3,157.47

Component Description: WCTV-310-New

Primary

Transmission Line

**Amount:** \$3,157.47

Component Description: WCTV-310-New

Primary

Transmission Line

**Amount:** \$3,788.97

Component Description: Nitrogen Industrial

300

**Amount:** \$94.78

#### **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
Primary Tower TOWER	\$684,000.00	\$792,000.00		\$243,176.00	
Tall Tower (greater than 500')	\$210,500.00	\$325,300.00	see Justifying Quote WCTV GTI America Q19-06-008 main antenna install	\$81,325.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$10,500.00	Hodge Invoice 19G000400. 1	\$10,500.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$430,000.00	State and local taxes	\$125,151.00	N/A
Structural Load Study	\$26,200.00	\$26,200.00	Estimated Cost Justification WCTV-410- Structural Analysis Existing Primary Tower V0	\$26,200.00	N/A
Auxiliary Tower	\$666,300.00	\$660,900.00		\$15,900.00	

#### **GTOWER**

Tall Tower (greater than 500')	\$210,500.00	\$215,000.00	Please see Q19-06- 037-3 WCTV WVUP Tallahassee combined antenna install	\$0.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$7,400.00	Hodge Invoice 19G000300. 1	\$7,400.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$430,000.00	State and local taxes	\$0.00	N/A
Structural Load Study	\$8,500.00	\$8,500.00	see Estimated Cost Justification WCTV-450- Structural Analysis Existing Auxiliary Tower v0	\$8,500.00	N/A
Sub-total	\$1,350,300.00	\$1,452,900.00	N/A	\$259,076.00	N/A
Total for all systems	\$5,770,049.86	\$5,580,998.02	N/A	\$2,388,226.12	N/A

### Components

Actual Information Description	File Name	
Tall Tower (greater than		

500')		
	Component Description:	25% Tower Equipment and
		Rigging
	Amount:	\$81,325.00
	Component Description: Amount:	N/A N/A
Tower mapping for an		
undocumented/poorly documented tower and	<b>Component Description:</b>	WCTV-410-Tower
preparation of	Amount:	Mapping \$5,250.00
documentation necessary for tower load study	Amount.	\$5,25U.UU
	Component Description:	WCTV-410-Tower
		Mapping-
	Amount:	\$5,250.00
	Component Description:	Please deny this
	Amount:	invoice N/A
Major tower reinforcement		
/modifications	Component Description:	POLE SOCKET /
		Guide Flange
		WCTV - ADDED
		PER CHANGE ORDER
	Amount:	\$125,151.00
Structural Load Study		
	Component Description:	Engineering
		Evaluation
	Amount:	\$7,875.00
	Component Description:	Engineer
		Evaluation
	Amount:	\$7,875.00

**Component Description:** Engineering Evaluation, Appurtence Mapping, Corrosion Risk Analysis \$5,225.00 Amount: **Component Description:** Engineering Evaluation Amount: \$5,225.00 **Component Description:** Please deny this invoice Amount: N/A Information not provided.

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Tall Tower (greater than

500')

**Component Description:** 

**Component Description:** 

Engineering Evaluation \$3,700.00

Amount:

Amount:

WCTV-450-Tower

Mapping \$3,700.00

Major tower reinforcement /modifications

Information not provided.

Structural Load Study

**Component Description:** WCTV-450-

Structural Analysis Existing Auxiliary

Tower

**Amount:** \$4,250.00

Component Description: 50% deposit -

Engineering
Evaluation,
Appurtenance
Mapping &
Corrosion Risk

Analysis

**Amount:** \$4,250.00

#### **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 Cos
Outside Professional Services	\$123,114.00	\$168,976.25		\$150,051.25	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,525.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$5,150.00	N/A
Project management of the transition	\$94,010.00	\$141,237.25	The estimated cost has been adjusted to include all invoices	\$141,237.25	Please see submitted invoices.

submitted for reimbursement at this time.

Attorney Fees - Other Matters	\$1,489.00	\$1,489.00	see Estimated Cost Justification WCTV-550- Attorney - Other Matters v1 (1)	\$1,489.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - 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	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form	\$1,580.00	\$1,500.00	N/A	N/A	N/A

License to Cover Application					
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$650.00	N/A
Sub-total	\$123,114.00	\$168,976.25	N/A	\$150,051.25	N/A
Total for all systems	\$5,770,049.86	\$5,580,998.02	N/A	\$2,388,226.12	N/A

### Components

2100,

File Name Information not provided.	
Component Description: Amount:	CP Application \$1,525.00
Component Description: Amount:	Consulting Engineer \$525.00
Component Description:	WCTV-530-RF Eng Channel Study \$1,200.00
(	Component Description: Amount:

Component Description: Consulting

Engineer

Regarding repack

CH-20 main antenna/line configuration

**Amount:** \$575.00

Component Description: Review system

gain-loss and corresponding TPO required for repack Ch-20 main antenna, various discussions.

**Amount:** \$650.00

Component Description: Develop technical

parameters for planned auxiliary

antenna \$900.00

Component Description: Perform

Amount:

engineering study for new channel assignment

**Amount:** \$1,300.00

Component Description: Conduct channel

study

**Amount:** \$187.50

Project management of the transition

Component Description: Project

management

**Amount:** \$2,516.90

Project Management

Amount:

\$1,831.65

**Component Description:** 

Project Management

Amount:

\$801.45

**Component Description:** 

Project

Amount:

Management \$4,254.50

Project

**Component Description:** 

Management

Amount:

\$7,653.90

**Component Description:** 

Project

Amount:

Management

\$11,188.05

**Component Description:** 

Project

Amount:

Management

\$17,332.25

**Component Description:** 

Project

Amount:

Management

\$2,460.90

**Component Description:** 

Project Management

Amount:

\$2,348.65

**Component Description:** 

Project

Amount:

Management

\$5,814.65

Project

Amount:

Management \$6,781.20

**Component Description:** 

Project

Amount:

Management \$1,944.80

**Component Description:** 

Project

Amount:

Management \$3,190.95

Project

**Component Description:** 

Management

Amount:

\$2,922.55

**Component Description:** 

Project

Amount:

Management

\$2,671.95

**Component Description:** 

Project

Amount:

Management, \$6,520.90

**Component Description:** 

**Project** 

Amount:

Management

\$2,890.75

**Component Description:** 

Project Management

Amount:

\$3,418.55

**Component Description:** 

Project Management

Amount:

\$2,573.35

Project Management

Amount:

\$1,706.25

**Component Description:** 

Project

Amount:

Management \$733.30

**Component Description:** 

Project

Amount:

Management \$5,473.15

Project

**Component Description:** 

Management

Amount:

Amount:

\$3,834.80

**Component Description:** 

Project

Management \$2,078.85

**Component Description:** 

Transition Related

Project

Management Costs

**Amount:** \$1,950.00

**Component Description:** 

Project

Amount:

Management

\$802.25

**Component Description:** 

Project Management

Amount:

\$28.20

Component Description: Project

Management

Amount:

\$2,551.30

Project Management

Amount:

\$1,773.60

**Component Description:** 

Project Management

Amount:

\$1,328.55

**Component Description:** 

Project

Amount:

management \$2,435.15

Component Description: Project

Management

Amount:

\$4,124.40

**Component Description:** 

Project

Management

Amount:

\$1,541.50

**Component Description:** 

Project

Management

Amount:

\$5,323.75

**Component Description:** 

Project

Amount:

Management

\$2,641.95

**Component Description:** 

Project Management

Amount:

\$2,500.60

**Component Description:** 

Project

Amount:

Management

\$2,772.95

	Component Description:  Amount:  Component Description:  Amount:	Project Management \$1,941.95  Project Management \$2,964.40
	Component Description:  Amount:	Project Management \$1,690.60
	Component Description: Amount:	Project Management \$1,921.85
Attorney Fees - Other Matters	Component Description: Amount:	Total Professional Services \$370.00
	Component Description: Amount:	For Professional Services Rendered \$740.00
	Component Description: Amount:	Legal Services \$379.00
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	Information not provided.	

and File FCC Form 2100 (main), Construction Permit Application		
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Develop final configuration for main antenna \$650.00

#### **Other Expenses**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$66,099.83	\$58,094.83		\$7,343.55	
Tree Removal	\$3,000.00	\$3,000.00	N/A	N/A	N/A
MVPD  Notification of Channel Change	\$2,000.00	\$2,000.00	Please see Estimated Cost Justification WCTV-610- MVPD Notifications v0	\$2,000.00	N/A
Equipment Delivery and Handling Charges	\$14,000.00	\$14,000.00	N/A	\$3,013.72	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$1,019.83	\$1,019.83	Please See Estimated Cost Justification WCTV-610- Disposal Costs v2	\$1,019.83	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$1,310.00	per Estimated Cost Justification WCTV-610- STA FCC Filing Fees v1	\$1,310.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$2,440.00	N/A	N/A	N/A
Site Security	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Equipment Storage	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Sub-total	\$66,099.83	\$58,094.83	N/A	\$7,343.55	N/A
Total for all systems	\$5,770,049.86	\$5,580,998.02	N/A	\$2,388,226.12	N/A

### Components

Actual Information Description	File Name	
Tree Removal	Information not provided.	
MVPD Notification of Channel Change	Component Description: Amount:	Total Professional Services \$2,000.00
Equipment Delivery and Handling Charges	Component Description: Amount:	Scissor Lift 19' Electric \$646.10
	Component Description: Amount:	Freight and driver \$1,360.87
	Component Description:	Scissor Lift 19' Electric-Rental
	Amount:	\$1,006.75

Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	setup fee - county \$158.36
	Component Description: Amount:	Rent - 0 Hauls \$117.00
	Component Description: Amount:	Const. and Demolitio \$218.28
	Component Description: Amount:	Const. and Demolitio \$198.97
	Component Description: Amount:	Const. and Demolitio \$210.22
	Component Description: Amount:	Rent - O Hauls \$117.00
FCC Filing Fees - Special Temporary Authorization request	Component Description: Amount:	WCTV-610-STA FCC Filing Fees \$200.00
	Component Description: Amount:	WCTV-610-STA FCC Filing Fees- \$1,110.00
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	Information not provided.	
Site Security	Information not provided.	

Develop and air	Information not provided.
announcement of upcoming	
channel change	
F :	
Equipment Storage	Information not provided.

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,770,049.86	\$5,580,998.02	\$2,388,226.12

Reimburseme	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. Robert Folliard , III

Assistant Secretary

08/04/2020



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.
- 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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

08/04/2020

#### **Attachments**