



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **74176** | Service: **DTV** | Call **WVVA** | Channel: **17 (UHF)** |  
ID: | Sign:  
File **0000027484**  
Number:  
FRN: **0018223693** | Date **02/19**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WVVA LICENSE, LLC</b> Doing Business As: WVVA LICENSE, LLC	P.O. BOX 909 QUINCY, IL 62306 United States	+1 (217) 223-5100	bdreasler@quincyinc. 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
<b>Tony zumMallen</b> <i>QCommunications, LLC</i>	Tony zumMallen 705B SE Melody LN #314 Lees Summit, MO 64063 United States	+1 (816) 729- 1177	tony@qcom1. 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	Transition from ch 46 to ch 17 and will need an antenna, transmitter and associated gear and systems. The station will need an interim transmitter and antenna system to provide continuous service during the transition.

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Power CD
	Year	2006
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	IOT transmitter is not tunable per the manufacturer.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	400.0 feet
	Other Electrical Service	No
	Description	N/A

<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	25 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Move transmitter</b>	Costs to move transmitter from studio to transmitter site
<b>Disconnect existing Transmitter</b>	Disconnect transmitter and components from existing configuration and move within building to make way for new facilities.
<b>Sales Tax Equipment-Main TX</b>	Sales tax for equipment- Main transmitter-per quote
<b>Plumbing</b>	Plumbing work to install new transmitter
<b>Site Survey - TX</b>	Site survey and report are required to be performed before the new transmitter and components installation plan can be finalized.
<b>Security - Site</b>	This site requires security once the new transmission line and equipment arrive on site to be installed. Estimated length of 4-6 weeks.

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**Transmitter - Training**

Transmitter training - offsite - 1 week in duration at mfg site.

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**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19.2 kW
	Justification for New Transmitter	Interim facility is required to avoid station silence during transition, no aux facility to use for interim operation. Extended silent period during transition to new channel is unreasonable. 10-5-18 - AMENDED 399 TO REFLECT TX CHANGE DUE TO ENGR MOD.

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
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<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	400.0 feet
	Other Electrical Service	No
	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	Yes

**Interim Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
Sales Tax-EQ	Est sales tax for equipment per quote



**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Other
	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	Omni- Directional
	ERP: (Effective Radiated Power) .....	1000.0 kW

Manufacturer	
Model	TFU-24JTH-R-04
Year	2006

Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	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	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	18
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	545.0 kW
	Manufacturer	

Model	TFU-18JTH /VP-R 04
Year	2017
Justification for New Antenna	Existing antenna is not tunable to new channel assignment. Adding Vertical component to Primary antenna and do not know of any upgraded pricing as of time of filing.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches inches

<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	8
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	300.0 kW
	Manufacturer	
	Model	TFU-8WB-R
	Year	2017

	Justification for New Antenna	Interim facility is required to avoid prolonged period of station silence during transition, and station currently has no aux facility to use for interim operation. Extended silent period during transition to new channel is unreasonable.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	4 1/16 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes



**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
FREIGHT-MFG EQ	FREIGHT FROM MFG TO STAGING

**Transmission Line**

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

**Primary**  
**Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	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	176 feet per run

**Primary**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	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	176 feet per run
	Justification for New Transmission Line	Existing line will not operate on new channel assignment per Dielectric sweep test.

**Primary**  
**Transmission Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
<b>Disconnect existing Interior RF components</b>	Disconnect interior RF transmission line and filters from existing configuration and move within the building to make way for new facilities.

**Interim  
Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	200 feet per run
	Justification for New Transmission Line	Interim facility is required to avoid prolonged period of station silence during transition, and station currently has no aux facility to use for interim operation. Extended silent period during transition to new channel is unreasonable.

Interim	Other Transmission Line Expenses Not Listed
Transmission Line	Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	Terrain Constrained
	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1254053
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	37° 15' 21.1" N-
	Longitude (NAD83)	081° 10' 53.3" W-
	Overall Structure Height	166.66 feet
	Support Structure Height	124.34 feet

	Ground Elevation Above Mean Sea Level (AMSL)	3669.25 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	WVVA Television, Inc.
	Date Constructed	09/18/2006

**Primary Tower**

**Tower Modification Costs**

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

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
Tower Rigging Costs	Complex Tower	Terrain constrained
Helicopter Services Required	Are helicopter services required?	No

**Primary Tower**

**Other Tower Expenses Not Listed**

Information not provided.



**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	934
	Explanation	Scope & significance of project (QMI has multiple stations repacked) require outside management services to augment existing internal personnel to assist turnkey management of and ensure timely and safe execution of channel relocation.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	4
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	4
	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	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes

RF exposure measurements	No
Additional Field Engineering Service	No
Number of Days	N/A
Justification	N/A

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>General Repack Legal Services</b>	See attached Memo - QMI INvoice Memo for Shared Legal Expenses (Matter 104411 00054) for Form 399
<b>Quarterly reporting</b>	Preparation and submittal of the FCC required quarterly report 387 by PM and attorney.
<b>Vendor Travel expenses</b>	Vendor Travel expenses for working in the field on behalf of the station for the Repack project
<b>Structural Analysis</b>	Engineering services: Structural Analysis of existing tower
<b>Tower Modification Drawings</b>	Engineering Services : Tower Modification Drawings

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	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

<b>Other Expenses</b>	<b>Other Expenses Not Listed</b> Information not provided.
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## 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 Cost Justification
Interim Transmitter ULXTE-30	\$1,515,097.84	\$905,960.62		\$717,601.65	
UHF - Air Cooled Solid State Transmitter 19.2 kW	<i>\$262,673.14</i>	\$262,673.14	***System Notice: Estimate adjusted and locked because line has been superseded. ***This is to amend the 399 Interim TX to more closely replicate the existing station contour during the interim operations that was paid on 3-28-18.	\$262,673.14	N/A
Sales Tax-EQ	<i>\$35,824.70</i>	\$35,824.70	Sales tax-INTERIM TX per Gates Q-73720	\$11,941.38	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	\$32,108.43	N/A

2" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$10,000.00	N/A	\$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$197,357.15	N/A	\$150,773.07	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$62,748.49	Actual costs to install electrical portion of interim transmitter	\$62,748.49	Actual costs per invoices.
UHF - Air Cooled Solid State Transmitter 10 - 12 kW	\$336,500.00	\$197,357.14	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$197,357.14	N/A
<b>Primary Transmitter ULXTE-72</b>	<b>\$1,910,029.75</b>	<b>\$1,980,270.52</b>		<b>\$1,697,884.18</b>	
Transmitter - Training	<b>\$3,300.00</b>	\$3,300.00	Transmitter training - offsite - 1 week in duration at mfg site.	N/A	N/A

Security - Site	<b>\$17,500.00</b>	\$17,500.00	This site requires security once the new transmission line and equipment arrive on site to be installed. Estimated length of 4-6 weeks.	N/A	N/A
Site Survey - TX	<b>\$25,000.00</b>	\$25,000.00	Site survey and report are required to be performed before the new transmitter and components installation plan can be finalized.	\$14,000.00	N/A
Plumbing	<b>\$64,791.00</b>	\$64,791.00	PO 2699 from Southern Air. Costs to install plumbing associated with transmitter install.	\$64,791.00	N/A
Sales Tax Equipment- Main TX	<b>\$78,988.75</b>	\$78,988.75	est sales tax for main tx equipment per quote Q-73721	\$26,329.58	N/A



Disconnect existing Transmitter	<b>\$20,000.00</b>	\$20,000.00	Disconnect transmitter and components from existing configuration and move within building to make way for new facilities.	N/A	N/A
Move transmitter	<b>\$36,150.00</b>	\$36,150.00	Southern Air PO 20574. Actual costs to move transmitter from studio to tx site.	N/A	N/A
25 Ton system	\$91,500.00	\$152,204.00	Actual costs Per quote and invoice from Southern Air. Quote includes removal and disposal of old unit.	\$140,204.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$10,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$99,694.49	Actual costs for equipment and electrical work to install equipment.	\$99,694.49	Actual invoice costs for equipment plus installation.

Switchgear - industrial 800 amp	\$38,200.00	\$56,695.57	Per Quote #73721, Line C totals \$44,640.57, PLUS the added change orders: Q- 82352 PO 20727; Q- 82564 PO 20742; Q- 83542 PO 20818; Q- 84797 PO 20924 totaling \$12,055	\$56,695.57	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,402,246.71	Actual costs per invoices from GatesAir	\$1,296,169.54	N/A
<b>Sub-total</b>	\$3,425,127.59	\$2,886,231.14	N/A	\$2,415,485.83	N/A
<b>Total for all systems</b>	\$5,284,904.09	\$4,489,649.14	N/A	\$3,376,846.66	N/A

## Components

### Actual Information

Description	File Name
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UHF - Air Cooled Solid  
State Transmitter 19.2 kW

**Component Description:** Plumbing work to  
install Interim tx.  
1st inv 28777; PO  
20663  
**Amount:** \$11,285.07

**Component Description:** Final invoice for  
plumbing - Int TX -  
INV 29474 - PO  
20663  
**Amount:** \$4,173.93

**Component Description:** Southern Air - first  
inv int tx bridge  
work - INV 29144 -  
PO 20764  
**Amount:** \$27,275.37

**Component Description:** Southern Air -  
bridge for tx line int  
tx - final invoice #  
29497 - PO 20764  
**Amount:** \$22,581.63

**Component Description:** Interim TX - 3rd  
invoice -  
US0322513 - Q-  
73720 - Lines A  
and B only.  
**Amount:** N/A

**Component Description:** WVVA-GATES-  
INV 2ND INV  
GO10004797-2  
LINES A B AND  
D- q-73720  
**Amount:** \$197,357.14

Sales Tax-EQ	<div> <div><b>Component Description:</b></div> <div>WVVA- GATES- INTERIM-SALES TAX-INV GO10004797-1</div> </div> <div> <div><b>Amount:</b></div> <div>\$11,941.38</div> </div>
UHF inside RF system including switching	<div> <div><b>Component Description:</b></div> <div>WVVA - Gates - UHF inside RF including switching. US0329314</div> </div> <div> <div><b>Amount:</b></div> <div>\$32,108.43</div> </div>
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<div> <div><b>Component Description:</b></div> <div>Lines A &amp; B only. Third invoice for interim transmitter. INV US0322513; Quote Q-73720</div> </div> <div> <div><b>Amount:</b></div> <div>\$150,773.07</div> </div>
Switchgear - industrial 800 amp	<div> <div><b>Component Description:</b></div> <div>Southern Air- Electrical for Interim TX ; Line 190111.3; INV 29487; PO 20699</div> </div> <div> <div><b>Amount:</b></div> <div>\$38,775.94</div> </div> <div> <div><b>Component Description:</b></div> <div>Int tx Electrical - Gates - US0322513 - Q- 73720; Line C Only</div> </div> <div> <div><b>Amount:</b></div> <div>\$1,665.83</div> </div>

	<b>Component Description:</b>  <b>Amount:</b>	WVVA-GATES INT 2ND INV GO10004797-2 ULXTE-30 LINE C \$1,665.83
	<b>Component Description:</b>  <b>Amount:</b>	Revised attachment, Electrical work to install interim transmitter. 1st Inv 28780; PO 20699 \$18,975.06
	<b>Component Description:</b>  <b>Amount:</b>	Per RFAS, changed the requested amount to \$0. Interim Switch and Load addition per Quote Q-80535. Includes freight of \$878.03 N/A
	<b>Component Description:</b>  <b>Amount:</b>	WVVA-GATES- INTERIM ELEC- INV GO10004797- 1 LINE C. \$1,665.83
UHF - Air Cooled Solid State Transmitter 10 - 12 kW	<b>Component Description:</b>  <b>Amount:</b>	WVVA-GATES- INTERIM TX INV- GO10004797-1 LINES A,B AND D. \$197,357.14
Transmitter - Training	Information not provided.	
Security - Site	Information not provided.	

Site Survey - TX	<b>Component Description:</b> WVVA-SURVEY-INV-QC18-031 <b>Amount:</b> \$14,000.00
Plumbing	<b>Component Description:</b> WVVA First invoice for plumbing work to install main tx. INV 28782 - PO 20699 <b>Amount:</b> \$8,920.59  <b>Component Description:</b> WVVA - Southern Air - prim tx plumbing - INV 29104 - PO 20699 <b>Amount:</b> \$24,281.58  <b>Component Description:</b> WVVA - Southern Air - Prim Plumbing - INV 29487 - PO 20699 <b>Amount:</b> \$31,588.83
Sales Tax Equipment-Main TX	<b>Component Description:</b> WVVA-Gates-Main-tx-sales-tax-GO10004796-1 <b>Amount:</b> \$26,329.58
Disconnect existing Transmitter	Information not provided.
Move transmitter	Information not provided.

25 Ton system	<div> <div> <b>Component Description:</b> </div> <div> Progress payment for HVAC for WVVA. INV 28131; PO 20591 </div> </div> <div> <b>Amount:</b> </div> <div> \$119,386.25 </div> <div> <b>Component Description:</b> </div> <div> Progress invoice for HVAC system; INV 28767A - PO 20591 </div> <div> <b>Amount:</b> </div> <div> \$20,817.75 </div>
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Transformer 3 phase/480v -  
300 KVA

**Component Description:** Electrical work to  
install main  
transmitter. 1st  
Invoice 28781; PO  
20699

**Amount:** \$25,408.24

**Component Description:** WVVA - Gates Air  
- Electrical - INV  
US0322512 Line D  
- PO 20027 Q-  
73721

**Amount:** \$3,881.49

**Component Description:** Amount to close  
out PO for  
Electrical to install  
the main  
transmitter. See  
attached cover  
sheet.

**Amount:** \$62,641.76

**Component Description:** WVVA-Gates-  
Main-Elec- INV  
GO10004796-1,  
LINE D

**Amount:** \$3,881.50

**Component Description:** WVVA GATES  
MAIN 2ND INV  
GO10004796-2-  
LINE D

**Amount:** \$3,881.50



Switchgear - industrial 800 amp	<div data-bbox="715 174 1372 448"> <p><b>Component Description:</b> WVVA - Gates Air - RF Accessories - INV US0322512 Line C - 3rd invoice - PO 20027 - Q-73721</p> <p><b>Amount:</b> \$14,880.19</p> </div> <div data-bbox="715 555 1337 750"> <p><b>Component Description:</b> WVVA GATES 2ND INV GO10004796-2 LINE C</p> <p><b>Amount:</b> \$14,880.19</p> </div> <div data-bbox="715 857 1361 1164"> <p><b>Component Description:</b> WVVA change orders: Q-82352 PO 20727; Q- 82564 PO 20742; Q-83542 PO 20818; Q-84797 PO 20924</p> <p><b>Amount:</b> \$12,055.00</p> </div> <div data-bbox="715 1272 1345 1467"> <p><b>Component Description:</b> WVVA-Gates- Main-RF-INV GO10004796-1, LINE C</p> <p><b>Amount:</b> \$14,880.19</p> </div>
Service entrance 3 phase /800 amp/208 volt	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	

<b>Component Description:</b>	Gates Air INV #3 - US0322512 LIne items A and B; change order Q- 77979, PO 20339. 1/8/2020 - added CO Q-77979, PO 20339 for \$6031.89
<b>Amount:</b>	\$333,782.24

<b>Component Description:</b>	2nd invoice for plumbing for main tx; INV 29487; PO 20699
<b>Amount:</b>	N/A

<b>Component Description:</b>	costs to move tx from storage site to tower site. INV 27828; PO 20574
<b>Amount:</b>	N/A

<b>Component Description:</b>	Final invoice for plumbing of prim tx portion of PO 20699; INV 29104
<b>Amount:</b>	\$24,281.58

<b>Component Description:</b>	WVVA-GATES MAIN- 2ND INV GO10004796-2 - LINE A B E AND CHANGE ORDER TO MASK Q-77979
<b>Amount:</b>	\$436,245.43

<b>Component Description:</b>	WVVA-Gates- MAIN-TX - INV GO10004796-1 LINE- A, B and E
<b>Amount:</b>	\$420,064.70

<b>Component Description:</b>	WVVA - Gates - Main TX - INV US0331604 - PO 20027 Q-73721 Lines A and E. Plus Freight \$13762.82
<b>Amount:</b>	\$106,077.17

<b>Component Description:</b>	Plumbing work to install main transmitter; 1st inv 28782; PO 20699
<b>Amount:</b>	N/A

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## 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
<b>Interim Antenna TFU-8WB-R</b>	<b>\$616,817.50</b>	<b>\$97,680.50</b>		<b>\$58,038.41</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$4,157.91	N/A
FREIGHT-MFG EQ	<i>\$2,227.50</i>	\$2,227.50	FREIGHT EQ MFG TO STAGING PER INVOICE-93049	\$2,227.50	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A

UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$20,216.25	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$20,216.25	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$11,220.50	***System Notice: Estimate adjusted and locked because line has been superseded. ***TOOL ERASED EST PRICE AND ALL PREVIOUS TRANSACTION FOR THE INTERIM ANTENNA	\$11,220.50	Actual costs for equipment and installation c equipment
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	\$10,950.00	\$10,400.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$20,216.25	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$20,216.25	N/A

<b>Primary Antenna TFU-18JTH /VP-R 04</b>	<b>\$205,690.00</b>	<b>\$204,400.00</b>		<b>\$128,687.63</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	N/A	\$5,386.50	Per Change orders Q-82352, PO 20727 and C-83542, PO 20924. Amount is stated below the predetermined cost estimate of \$13,700
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	<b>\$180,000.00</b>	\$180,000.00	per Catalog of costs for replacement antenna. 399 tool did not populate a standard predetermined cost. Not sure why this is a standardized antenna replacement. Lowered to the Catalog min \$180,000	\$120,421.13	N/A
<b>Sub-total</b>	<b>\$822,507.50</b>	<b>\$302,080.50</b>	N/A	<b>\$186,726.04</b>	N/A

<b>Total for all systems</b>	\$5,284,904.09	\$4,489,649.14	N/A	\$3,376,846.66	N/A
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## Components

Actual Information	
Description	File Name
Sweep test of existing antenna	<p><b>Component Description:</b> WVVA - Resonant - Sweep test - INV RR3267 - PO 20907</p> <p><b>Amount:</b> \$4,157.91</p>
FREIGHT-MFG EQ	<p><b>Component Description:</b> WVVA-DIE-ANT-INTERIM-SALES TAX- PER INV- 93049 LINE 19 - ADDED ORDER CONF 488001</p> <p><b>Amount:</b> \$2,227.50</p>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<p><b>Component Description:</b> WVVA-INTERIM ANT line 1- 2nd 45 percent inv</p> <p><b>Amount:</b> \$20,216.25</p>

UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<div> <b>Component Description:</b> Electrical work to move conduits &amp; fiber to new bridge to install Int Antenna; INV 29887; PO 20811         </div> <div> <b>Amount:</b> \$6,728.00         </div>
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<div> <b>Component Description:</b> WVVA-DIE-ANT-INV 93049 LINE 1         </div> <div> <b>Amount:</b> \$4,492.50         </div>
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<div> <b>Component Description:</b> INTERIM ANT-LINE1 WVVA         </div> <div> <b>Amount:</b> \$20,216.25         </div>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	<div> <b>Component Description:</b> ELBOW MAIN DEPOSIT INV 35 PERCENT WVVA         </div> <div> <b>Amount:</b> \$4,189.50         </div> <div> <b>Component Description:</b> ELBOW - DEPOSIT 10 PERCENT WVVA         </div> <div> <b>Amount:</b> \$1,197.00         </div>



Sweep test of existing antenna	<b>Component Description:</b>		SWEEP MAIN
			ANTENNA
			DEPOSIT INV
			WVVA
	<b>Amount:</b>		\$2,240.00
	<b>Component Description:</b>		SWEEP MAIN
			ANT DEPOSIT
			INV 10
			PERCENT WVVA
	<b>Amount:</b>		\$640.00

UHF - High Power Top  
Mount One Station antenna  
elliptically or circularly  
polarized

**Component Description:**

This request is for the antenna only - not for the VPOL. The amount for VPOL has been deducted from this invoice and will not be requested due to VPOL being considered an upgrade. See cover sheet.

**Amount:**

\$54,294.75

**Component Description:**

MAIN ANTENNA  
DEPOSIT INV 10  
PERCENT WVVA

**Amount:**

\$14,694.75

**Component Description:**

MAIN ANT  
DEPOSIT 35  
PERCENT INV  
WVVA

**Amount:**

\$51,431.63

**Component Description:**

This the 1st  
invoice for  
Proposal # 19358-  
5A on PO 20776  
for the Main  
Antenna install

**Amount:**

N/A

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$14,800.00	\$14,000.00		\$11,171.50	
Flexible Air Transmission Line - dielectric, 4"	\$14,800.00	\$14,000.00	N/A	\$11,171.50	N/A
Primary Transmission Line	\$48,052.00	\$65,577.50		\$5,307.75	
Disconnect existing Interior RF components	\$12,500.00	\$12,500.00	Disconnect interior RF transmission line and filters from existing configuration and move within the building to make way for new facilities.	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	\$35,552.00	\$53,077.50	Actual costs per invoices.	\$5,307.75	N/A
Sub-total	\$62,852.00	\$79,577.50	N/A	\$16,479.25	N/A
Total for all systems	\$5,284,904.09	\$4,489,649.14	N/A	\$3,376,846.66	N/A

Components

Actual Information Description	File Name
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<p>Flexible Air Transmission Line - dielectric, 4"</p>	<table> <tr> <td data-bbox="719 174 1027 210"><b>Component Description:</b></td><td data-bbox="1161 174 1362 322">WVVA- INTERIM LINE - 2nd 45 percent inv- lines 2 and 18</td></tr> <tr> <td data-bbox="719 336 831 371"><b>Amount:</b></td><td data-bbox="1161 336 1278 371">\$5,027.18</td></tr> <tr> <td data-bbox="719 474 1027 510"><b>Component Description:</b></td><td data-bbox="1161 474 1382 586">INTERIM LINE INV 45 PERCENT- LINES 2 AND 18</td></tr> <tr> <td data-bbox="719 600 831 636"><b>Amount:</b></td><td data-bbox="1161 600 1278 636">\$5,027.18</td></tr> <tr> <td data-bbox="719 734 1027 770"><b>Component Description:</b></td><td data-bbox="1161 734 1366 967">WVVA DIE-LINE- EQ-INV 93049 LINES 2 AND 18- FINAL. TOOL ZEROED OUT INTERIM ANT</td></tr> <tr> <td data-bbox="719 981 831 1016"><b>Amount:</b></td><td data-bbox="1161 981 1278 1016">\$1,117.14</td></tr> </table>	<b>Component Description:</b>	WVVA- INTERIM LINE - 2nd 45 percent inv- lines 2 and 18	<b>Amount:</b>	\$5,027.18	<b>Component Description:</b>	INTERIM LINE INV 45 PERCENT- LINES 2 AND 18	<b>Amount:</b>	\$5,027.18	<b>Component Description:</b>	WVVA DIE-LINE- EQ-INV 93049 LINES 2 AND 18- FINAL. TOOL ZEROED OUT INTERIM ANT	<b>Amount:</b>	\$1,117.14
<b>Component Description:</b>	WVVA- INTERIM LINE - 2nd 45 percent inv- lines 2 and 18												
<b>Amount:</b>	\$5,027.18												
<b>Component Description:</b>	INTERIM LINE INV 45 PERCENT- LINES 2 AND 18												
<b>Amount:</b>	\$5,027.18												
<b>Component Description:</b>	WVVA DIE-LINE- EQ-INV 93049 LINES 2 AND 18- FINAL. TOOL ZEROED OUT INTERIM ANT												
<b>Amount:</b>	\$1,117.14												
<p>Disconnect existing Interior RF components</p>	<p>Information not provided.</p>												

Rigid Transmission Line -  
copper, 6 1/8"

**Component Description:**

MAN00091 Line  
#4: this request is  
for 35% of the  
main tx copper  
line. The first 10%  
already  
reimbursed under  
INV MAN00086.  
See cover letter  
for additional  
information and  
explanation.

**Amount:**

\$18,577.13

**Component Description:**

MAIN LINE -  
DEPOSIT 10  
PERCENT INV  
WVVA

**Amount:**

\$5,307.75

**Component Description:**

MAIN LINE  
DEPOSIT 35  
PERCENT INV  
WVVA

**Amount:**

\$18,577.13

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	\$591,600.00	\$853,310.00		\$628,491.47	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$453,155.00	Per Actual invoices from PCI for Main & Int Antenna installs.	\$453,155.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$4,920.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$388,155.00	Precision Communications PO 20776; Proposal 19355- 5A	\$170,416.47	N/A
Sub-total	\$591,600.00	\$853,310.00	N/A	\$628,491.47	N/A
Total for all systems	\$5,284,904.09	\$4,489,649.14	N/A	\$3,376,846.66	N/A

Components

Actual Information	
Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	

<b>Component Description:</b>	11-27-19 WVVA - PCI - Main Install - INV 7729 - Proposal 19358- 5A - See cover sheet for PO breakdown.
<b>Amount:</b>	\$58,440.00

<b>Component Description:</b>	WVVA - PCI - Tower Mods 1st invoice 7685 - PO 20776. See cover letter.
<b>Amount:</b>	\$129,385.00

<b>Component Description:</b>	Costs to install interim antenna. 1st invoice. INV 7686; PO 20776. See cover letter for breakdown of PO
<b>Amount:</b>	\$25,835.00

<b>Component Description:</b>	PCI - Interim Installation - INV 7728 - Proposal # 19356-5A - see cover sheet for PO breakdown.
<b>Amount:</b>	\$25,835.00

<b>Component Description:</b>	11-27-19 - WVVA - PCI - Tower Mods - INV 7727 - Proposal 19355- 5A. See cover sheet for PO breakdown.
<b>Amount:</b>	\$129,385.00

	<b>Component Description:</b>	Third invoice for interim antenna installation on PO 20776; INV 7748
	<b>Amount:</b>	\$25,835.00
	<b>Component Description:</b>	Proposal 19358-5A Main Antenna Installation. INV 7687 - PO 20776
	<b>Amount:</b>	\$58,440.00
Structural engineering tower load study for well documented tower	<b>Component Description:</b>	WVVA- TOWER MAP - FORD INV 206593
	<b>Amount:</b>	\$3,120.00
	<b>Component Description:</b>	WVVA-PJFORD ANALYSIS- INV 206072
	<b>Amount:</b>	\$1,800.00
Minor tower reinforcement /modifications	<b>Component Description:</b>	PCI Tower Mods; PO 20776; addendum to Proposal 19355-5A; INV 7750
	<b>Amount:</b>	\$41,031.47
	<b>Component Description:</b>	Tower Modifications; PCI ; INV 7747; PO 20776
	<b>Amount:</b>	\$129,385.00



## 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
<b>Outside Professional Services</b>	<b>\$321,437.00</b>	<b>\$307,635.00</b>		<b>\$120,614.07</b>	
Structural Analysis	<i>\$600.00</i>	\$600.00	Engineering services per actual invoice	\$600.00	N/A
Tower Modification Drawings	<i>\$2,200.00</i>	\$2,200.00	Tower modification drawings per actual invoice	\$2,200.00	N/A
Vendor Travel expenses	<i>\$21,965.00</i>	\$21,965.00	Reimbursable Vendor Travel expenses for working in the field on behalf of the station for the Repack project - see quote for estimated expenses. QC-17010	\$7,689.41	N/A
Quarterly reporting	<i>\$7,000.00</i>	\$7,000.00	Preparation and submittal of the FCC required quarterly report 387 by PM and attorney.	N/A	N/A

General Repack Legal Services	<b>\$10,000.00</b>	\$10,000.00	See attached memo-QMI Repack Invoice Memo for Shared Legal Expenses (Matter 10441100054) for Form 399-	\$8,780.66	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	\$14,720.00	\$14,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$3,519.00	N/A
Prepare request for Special Temporary Authorization	\$8,200.00	\$6,000.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$3,520.00	Actual costs per Lohnes & Culver invoices.	\$3,520.00	Actual costs per invoices from Lohnes & Culver.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$0.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$147,572.00	\$140,100.00	N/A	\$94,305.00	N/A
<b>Sub-total</b>	\$321,437.00	\$307,635.00	N/A	\$120,614.07	N/A
<b>Total for all systems</b>	\$5,284,904.09	\$4,489,649.14	N/A	\$3,376,846.66	N/A

## Components

Actual Information Description	File Name
Structural Analysis	<div> <div>Component Description:</div> <div>Structural analysis of existing tower. INV 213698. NOTE: Vendor Name is actually Paul J. Ford &amp; Company; since the tool does not allow special characters, "and" has been substituted for "&amp;".</div> </div> <div> <div>Amount:</div> <div>\$600.00</div> </div>
Tower Modification Drawings	<div> <div>Component Description:</div> <div>Tower Modification drawings. INV 216116. NOTE: Vendor Name is actually Paul J. Ford &amp; Company; since the tool does not allow for special characters, "and" has been substituted for "&amp;" in the Vendor Name field.</div> </div> <div> <div>Amount:</div> <div>\$2,200.00</div> </div>
Vendor Travel expenses	<div> <div>Component Description:</div> <div>WVVA - QCOMM - PM TRVL- JAN- JUN 19 - INV QC19-063</div> </div> <div> <div>Amount:</div> <div>\$6,240.00</div> </div> <div> <div>Component Description:</div> <div>WVVA- PM-Travel exp -Items- 1010,1014,1015 - INV QC17-148</div> </div> <div> <div>Amount:</div> <div>\$1,449.41</div> </div>

Quarterly reporting	Information not provided.	
General Repack Legal Services	<b>Component Description:</b>  <b>Amount:</b>	BROOKS-WVVA- JAN-18 INV 3949058 \$49.50
	<b>Component Description:</b>  <b>Amount:</b>	WVVA-BROOKS- OCT-19- INV3959632 \$198.00
	<b>Component Description:</b>  <b>Amount:</b>	WVVA Repack Legal Services for period ending April 30, 2019. INV 3966163 \$156.00
	<b>Component Description:</b>  <b>Amount:</b>	Brooks Repack Legal Services period ending Nov '19; INV 3975577 \$126.00
	<b>Component Description:</b>  <b>Amount:</b>	Brooks General Repack Legal Services period ending June 30, 2017. \$266.45 is WVVA portion of total invoice. \$266.45
	<b>Component Description:</b>  <b>Amount:</b>	Brooks Repack Legal Services period ending Feb '19; INV 3964372 \$52.00

<b>Component Description:</b>	Brooks Repack legal services period ending Nov '18; INV 3960719
<b>Amount:</b>	\$297.00

<b>Component Description:</b>	Brooks General Repack legal services for period ending March 31, 2018. \$28.28 is WVVA portion of total invoice.
<b>Amount:</b>	\$28.28

<b>Component Description:</b>	Brooks General Repack legal services for period ending December 31, 2017. \$40.28 is WVVA portion of total invoice
<b>Amount:</b>	\$40.28

<b>Component Description:</b>	Brooks Repack Legal Services period ending Oct '17; INV 3945577
<b>Amount:</b>	\$141.00

<b>Component Description:</b>	Brooks- General Repack Legal Services for period ending July 31, 2017. \$275.00 is WVVA portion of total invoice amount.
<b>Amount:</b>	\$275.00

<b>Component Description:</b>	Brooks General Repack Legal Services for period ending November 30, 2017. \$221.58 is WVVA portion of total invoice.
<b>Amount:</b>	\$221.58

<b>Component Description:</b>	Brooks General Repack legal services for period ending February 28, 2018. \$28.28 is WVVA portion of total invoice.
<b>Amount:</b>	\$28.28

<b>Component Description:</b>	Brooks General Repack Legal Services for period ending August 31, 2017. \$177.86 is 1 /7th of total invoice which is WVVA portion.
<b>Amount:</b>	\$117.86

<b>Component Description:</b>	Brooks General Repack legal services for period ending April 30, 2018. \$28.29 is WVVA portion of total invoice
<b>Amount:</b>	\$28.29

<b>Component Description:</b>	Brooks Repack Legal Services period ending Jan '19; INV 3962868
<b>Amount:</b>	\$260.00

<b>Component Description:</b>	Brooks Repack Legal Services period ending July '19; INV 3970203
<b>Amount:</b>	\$312.00

<b>Component Description:</b>	Brooks Repack Legal Services for period ending Oct 2019; INV 3974482
<b>Amount:</b>	\$3,784.00

<b>Component Description:</b>	Brooks Repack Legal Service August '19; INV 3971022
<b>Amount:</b>	\$676.00

<b>Component Description:</b>	Brooks Repack Legal Services period ending Nov '17; INV 3946864
<b>Amount:</b>	\$47.00

<b>Component Description:</b>	Brooks Repack Legal Services period ending Dec '17; INV 3947924
<b>Amount:</b>	\$188.00

<b>Component Description:</b>	Brooks Repack Legal Services period ending June '19; INV 3968514
<b>Amount:</b>	\$156.00

<b>Component Description:</b>	WVVA BROOKS AUG18 - INV 3957123
<b>Amount:</b>	\$198.00



<b>Component Description:</b>	WBNG-BROOKS APRIL18 INV 3952583
<b>Amount:</b>	\$99.00

<b>Component Description:</b>	Brooks General Repack Legal Services for period ending January 31, 2018. \$35.36 is WVVA of total invoice
<b>Amount:</b>	\$35.36

<b>Component Description:</b>	Brooks WVVA- General -NOV17 inv 3946865 - first 6 are at 221.57 WVVA is the last of 7 and is at 221.58 to be to the penny for the inv. -10-16- ADDED BROOKS MEMO
<b>Amount:</b>	\$221.58

<b>Component Description:</b>	WVVA-BROOKS- INV-3951200- MAR18
<b>Amount:</b>	\$49.50

<b>Component Description:</b>	Brooks-WVVA- General-AUG17 inv
<b>Amount:</b>	\$117.85

<b>Component Description:</b>	Brooks General Repack Legal services for period ending May 31, 2017. \$190.85 is WVVA portion of total invoice.
<b>Amount:</b>	\$190.85

<b>Component Description:</b>	Brooks-WVVA General SEPT17 inv 3944708
<b>Amount:</b>	\$90.64

<b>Component Description:</b>	WVVA - BROOKS JULY18 INV 3955736
<b>Amount:</b>	\$99.00

<b>Component Description:</b>	WVVA-BROOKS- MAY18 - INV3953763
<b>Amount:</b>	\$49.50

<b>Component Description:</b>	Brooks-WVVA- General JUNE17 inv 3941325 - ONE SEVENTH SEE MEMO
<b>Amount:</b>	\$266.44

<b>Component Description:</b>	Brooks-WVVA- General JULY17- inv 3942230 - ONE SEVENTH SEE MEMO
<b>Amount:</b>	\$275.00

	<p><b>Component Description:</b> Brooks-General-MAY17-GEN INV 3940170 -ONE SEVENTH- SEE MEMO</p> <p><b>Amount:</b> \$190.85</p>
	<p><b>Component Description:</b> Brooks - General Repack Legal for period ending October 31, 2017. \$322.29 is WVVA portion of total invoice.</p> <p><b>Amount:</b> \$322.29</p>
	<p><b>Component Description:</b> Brooks-WVVA-General OCT17 inv- first 6 are at 322.28 last 1 of 7 WVVA is at 322.32 to be to the penny for inv 3945578 - 10-16 ADDED MEMO</p> <p><b>Amount:</b> \$322.32</p>
	<p><b>Component Description:</b> WVVA- BROOKS-DEC18-INV3961877</p> <p><b>Amount:</b> \$198.00</p>
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.

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="694 100 1085 291"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 100 1428 291"> <p>LEGAL MAY17 WVVA \$453.00</p> </td></tr> <tr> <td data-bbox="694 291 1085 504"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 291 1428 504"> <p>LEGAL SEPT17 WVVA \$141.00</p> </td></tr> <tr> <td data-bbox="694 504 1085 716"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 504 1428 716"> <p>LEGAL 4-17-INV \$470.00</p> </td></tr> <tr> <td data-bbox="694 716 1085 929"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 716 1428 929"> <p>LEGAL JUNE17 WVVA \$359.00</p> </td></tr> <tr> <td data-bbox="694 929 1085 1142"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 929 1428 1142"> <p>LEGAL AUG17 \$470.00</p> </td></tr> <tr> <td data-bbox="694 1142 1085 1359"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 1142 1428 1359"> <p>LEGAL JULY17 WVVA \$1,626.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL MAY17 WVVA \$453.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL SEPT17 WVVA \$141.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL 4-17-INV \$470.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL JUNE17 WVVA \$359.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL AUG17 \$470.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL JULY17 WVVA \$1,626.00</p>
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<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL 4-17-INV \$470.00</p>												
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<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL AUG17 \$470.00</p>												
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>LEGAL JULY17 WVVA \$1,626.00</p>												
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>												
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<table> <tr> <td data-bbox="694 1512 1085 1971"> <p><b>Component Description:</b></p> </td><td data-bbox="1085 1512 1428 1971"> <p>RF Consulting Engineer Services . NOTE: Vendor name is Lohnes &amp; Culver; since the tool doesn't recognize special characters, "and" has been substituted for "&amp;"</p> </td></tr> <tr> <td data-bbox="694 1971 1085 2078"> <p><b>Amount:</b></p> </td><td data-bbox="1085 1971 1428 2078"> <p>\$3,520.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>RF Consulting Engineer Services . NOTE: Vendor name is Lohnes &amp; Culver; since the tool doesn't recognize special characters, "and" has been substituted for "&amp;"</p>	<p><b>Amount:</b></p>	<p>\$3,520.00</p>								
<p><b>Component Description:</b></p>	<p>RF Consulting Engineer Services . NOTE: Vendor name is Lohnes &amp; Culver; since the tool doesn't recognize special characters, "and" has been substituted for "&amp;"</p>												
<p><b>Amount:</b></p>	<p>\$3,520.00</p>												

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b> <b>Amount:</b>	ENGR- CP - INV \$1,970.00
Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b> <b>Amount:</b>	ENGR NEW CH ASSIGN WVVA INV \$2,100.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

Project management of the transition

<b>Component Description:</b>	WVVA-PM-8THRU12-INV QC18-023
<b>Amount:</b>	\$8,602.50
<b>Component Description:</b>	WVVA-QCOMM PM- JAN - JUN 19 - INV QC19-063
<b>Amount:</b>	\$50,250.00
<b>Component Description:</b>	WVVA-PM-AUG- DEC18- INV QC19- 021
<b>Amount:</b>	\$6,150.00
<b>Component Description:</b>	PM-WVVA DEPOSIT INV
<b>Amount:</b>	\$70,007.50
<b>Component Description:</b>	WVVA- PM-INV- QC17-148 - PM from Mar thru Aug- 17. Please delete previous INV QC17- 135, submitted as it is a deposit invoice submitted prior to the FAQ 12/20/17.
<b>Amount:</b>	\$18,412.50
<b>Component Description:</b>	WVVA-QCOMM- PM 1THRU3-18 - INV QC18-051
<b>Amount:</b>	\$7,875.00
<b>Component Description:</b>	WVVA - QCOMM PM 4THRU7-180 INV QC18-065
<b>Amount:</b>	\$3,015.00



Cost  
Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$61,380.00	\$60,815.00		\$9,050.00	
Equipment Storage	<i>\$10,000.00</i>	\$10,000.00	Expecting multiple staggered equipment deliveries from different vendors and need to store and stage new equipment prior to installation date. Anticipate from 6-24 months of storage time.	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$8,000.00</i>	\$8,000.00	Transport, forklift rental and handling fees from staging area to transmitter site.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$10,000.00</i>	\$10,000.00	Rent 40 yard dumpster with multiple pickups. Estimated 6-months on site. Potential hazardous waste management issues.	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	\$2,950.00	N/A
MVPD Notification of Channel Change	<b>\$6,300.00</b>	\$6,300.00	Required FCC notification.	\$6,100.00	N/A
Develop and air announcement of upcoming channel change	<b>\$15,000.00</b>	\$15,000.00	Required FCC announcements and good will public relations must we upheld. The production airing and disseminating of these announcements are fundamental to our operations.	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
<b>Sub-total</b>	\$61,380.00	\$60,815.00	N/A	\$9,050.00	N/A
<b>Total for all systems</b>	\$5,284,904.09	\$4,489,649.14	N/A	\$3,376,846.66	N/A

## Components

Actual Information Description	File Name
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.

Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
DTV Medical Facility Notification	<b>Component Description:</b>  <b>Amount:</b>	WVVA - RF Notifications - Medical Notification Mailing - INV 1327 - PO 20008 \$2,950.00
MVPD Notification of Channel Change	<b>Component Description:</b>  <b>Amount:</b>  <b>Component Description:</b>  <b>Amount:</b>  <b>Component Description:</b>  <b>Amount:</b>	WVVA Radio Notifications for WKEZ-AM - INV 439160-1 - PO 20888 \$400.00  WVVA Radio notifications for WHAJ-FM - INV 439154-1 - PO 20888 \$800.00  WVVA - radio notifications for WHIS-AM - INV 439161-1 - PO 20888 \$400.00

<b>Component Description:</b>	WVVA - WSTG radio notifications - INV 191000406 - PO 20890. NOTE: The actual company name is L & P Broadcasting, but since the tool doesn't allow for special characters, "and" has been substituted for the "&" in the Vendor Name.
<b>Amount:</b>	\$800.00

<b>Component Description:</b>	WVVA - WJLS-AM radio notifications - INV 243846-1 - PO 20894
<b>Amount:</b>	\$900.00

<b>Component Description:</b>	WVVA Radio notifications for Willie 94.5 - INV 19100130 - PO 20888
<b>Amount:</b>	\$600.00

<b>Component Description:</b>	WVVA Radio Notifications for WKQR-FM - INV 19100119 - PO 20888
<b>Amount:</b>	\$500.00

	<p><b>Component Description:</b> WVVA Radio Notifications for WKQB-FM- INV 19100131 - PO 20888</p> <p><b>Amount:</b> \$450.00</p> <p><b>Component Description:</b> WVVA - WJLS-FM radio notifications; INV 243848-1 - PO 20894</p> <p><b>Amount:</b> \$1,250.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$5,284,904.09	\$4,489,649.14
			\$3,376,846.66

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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.

**BRADY  
DREASLER**  
*CORPORATE  
DIRECTOR  
OF  
ENGINEERING*

02/19/2020



Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>BRADY DREASLER CORPORATE DIRECTOR OF ENGINEERING</b></p> <p>02/19/2020</p>

## Attachments