

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File Number:	74176 000002	Service: DTV 27484	Call Sign:	WVVA	Channel: 17 (UHF)
FRN: 00 1	18223693	Date Submitted:	07/07 /2020		

Applicant Name, Type, and Contact Information

Applicant Information

				Applicant
Applicant	Address	Phone	Email	Туре
WVVA LICENSE, LLC Doing Business As:	P.O. BOX 909	+1 (217) 223-5100	bdreasler@quincyinc. com	Limited Liability
WVVA LICENSE, LLC	QUINCY, IL 62306 United			Company
	States			

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Na	ct Name and Information			
Contact Information	Applicant	Address	Phone	Email	
	Tony zumMallen QCommunications, LLC	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	Existing Transmitter Infor	ing Transmitter Information			
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
			Yes		
	Existing Transmitter	Manufacturer			
	Manufacturer and Type	Model	Power CD		
		Year	2006		
		Туре	Inductive Output Tube		
		IOT Power Type	Two		
		Power Capacity	60 kW		

Existing Transmitter Information

Primary	New Transmitter Costs		
Transmitter	Section	Question	Response
	New Transmitter	Use	Primary (Main)
		Change Type	Purchase New
		Is this a request for upgraded equipment?	Yes
	ManufacturerModelTransmitter TypeSolid State CoolingSolid State Power capacity		
		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 Other Transmitter Costs

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

HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	25 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter Mame

Name	Description
Move and stage equipment	Costs to move/stage/coordinate a complex installation. Time and material invoice.
Securirty - Site	This site requires security once the new transmission line and equipment arrive on site to be installed. Estimated length of 4-6 weeks.
Sales Tax Equipment-Main TX	Sales tax for equipment- Main transmitter- per quote
Disconnect existing Transmitter	Disconnect transmitter and components from existing configuration and move within building to make way for new facilities.
Transmitter - Training	Transmitter training - offsite - 1 week in duration at mfg site.
Nitrogen and Oxygen	Nitrogen and Oxygen supply for install activiites
Plumbing	Plumbing work to install new transmitter

Site Survey - TX	Site survey and report are required to be performed before the new transmitter and components installation plan can be finalized.
Move transmitter	Costs to move transmitter from studio to transmitter site
Cabling, Lighting, Demo	Costs for installing fiber optic cable, lighting controls and components demolition to restore systems impacted due to repack activities.

Interim	New Transmitter Costs		
Transmitter	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.

Electrical Service	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
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
Inside RF System	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 Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary Antenna	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 Manufacturer and Type	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	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		
		Туре	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.

Other Antenna Costs Primary

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A	nten	na

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?	Broadband
	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?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Other Antenna Cost Not Listed

Name	Description
Fire and EMS Services for antenna install	Costs to have EMS and fire department on site for helicopter Antenna installation.

Interim	New Antenna Costs			
Antenna	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?	No	
		Is antenna directional?	Yes	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	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	
			1	

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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Antenna

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

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

Primary	Existing Transmission Line			
Transmissio	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	176 feet per run	

Primary	New Transmission Line		
Transmissio	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 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	Other Transmission Line Expenses Not Listed			
Transmissio	n Line	Description		
	Disconnect existing Interior RF components	Disconnect interior RF transmission line and filters from existing configuration and move within the building to make way for new facilities.		

ransmissio	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	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

Other Transmission Line Expenses Not Listed

Transmission not provided.

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

marv	Existing	Tower	
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Primary	Existing Tower					
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			
		Others Types of UsersN/AIs tower documented for structural analysis?Yes				
		Is tower compliant with Rev G?	Modify Existing Primary (Main) N/A Owned Terrain Constrained No N/A N/A			
	Existing Tower Structure	Do you have a tower registration number?	Yes			
	Registration	ASR Number	1254053			
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)				
	1983))	Longitude (NAD83)				
		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 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 Rigging Costs

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

Other Tower Expenses Not Listed

Primary Tower

Tower

Information not provided.

Outside Professional	Section	Question	Response			
		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.			
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes			
		Prepare engineering section of Form FCC Construction Permit Application	Yes			
		For Auxiliary Facility	No			
		For Main Facility	Yes			
		Prepare engineering section of Form FCC License to Cover Application	Yes			
		For Auxiliary Facility	No			
		For Main Facility	Yes			

	Prepare request for Special Temporary Authority	Yes
	Quantity	4
	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	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
RF Field Engineering Services	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 Other Professional Services Expenses Not Listed

Professional	Services Costs	Description
	Quarterly reporting	Preparation and submittal of the FCC required quarterly report 387 by PM and attorney.
	Structural Analysis	Engineering services: Structural Analysis of existing tower
	Tower Modification Drawings	Engineering Services : Tower Modification Drawings
	Vendor Travel expenses	Vendor Travel expenses for working in the field on behalf of the station for the Repack project
	General Consulting Engineering Services	Consulting Engineer - miscellaneous services.
	General Repack Legal Services	See atached Memo - QMI INIvoice Memo for Shared Legal Expenses (Matter 104411 00054) for Form 399

Other	Section	Question	Response	
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No	
		Is Remediation needed?	No	
	Facility Expenses	Name	No	
		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	
		Is an Impact Study needed?NoIs Remediation needed?NoIs Remediation needed?NoNameN/AOther Distributed Transmission System Expenses Not listedN/ANameN/AIs Notification of a Medical Facility required as a result of DTV broadcasting?YessLocal ZoningNoNon-zoning permitsNoBLM or NFS CoordinationNoFCC Construction Permit Minor ChangeNoFCC License to Cover ApplicationYesFCC Special Temporary Authority ApplicationYesDoes this relocation require paying 		
		FCC Construction Permit Minor Change	No	
		FCC License to Cover Application	Yes	
			Yes	
	Other Miscellaneous Expenses	Disposal Costs (for equipment and other	Yes	
		Delivery or Handling Charges not otherwise	Yes	
			Yes	
			Development and Airing of an Announcement regarding an upcoming	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes	

Other Expenses Not Listed

Other Expenses	Other Expenses Not Listed			
	Name	Description		
	Required Newspaper Notifications	Required newspaper ads announcing frequency change.		

Transmitters

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter ULXTE-30	\$1,515,097.84	\$905,960.62		\$717,601.65	
Sales Tax- EQ	\$35,824.70	\$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
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 - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$197,357.15	N/A	\$150,773.07	N/A

UHF - Air Cooled Solid State Transmitter 19.2 kW	\$262,673.14	\$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
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
Primary Transmitter ULXTE-72	\$2,032,027.83	\$2,102,268.60		\$1,789,618.79	
Cabling, Lighting, Demo	\$76,492.00	\$76,492.00	Costs to install fiber optic cable, tower lighting and demolition of certain equipment due to repack efforts.	\$55,405.53	N/A

Move transmitter	\$36,150.00	\$36,150.00	Southern Air PO 20574. Actual costs to move transmitter from studio to tx site.	\$36,150.00	N/A
Plumbing	\$64,791.00	\$64,791.00	PO 2699 from Southern Air. Costs to install plumbing associated with transmitter install.	\$64,791.00	N/A
Nitrogen and Oxygen	\$179.08	\$179.08	Nitrogen /Oxygen cylinder rentals charges for install activities	\$179.08	N/A
Sales Tax Equipment- Main TX	\$78,988.75	\$78,988.75	est sales tax for main tx equipment per quote Q- 73721	\$26,329.58	N/A
Securirty - Site	\$17,500.00	\$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

Move and stage equipment	\$45,327.00	\$45,327.00	Time and materials to move/stage /coordinate equipment during installation of a complex project.	\$0.00	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
Transmitter - Training	\$3,300.00	\$3,300.00	Transmitter training - offsite - 1 week in duration at mfg site.	N/A	N/A
Disconnect existing Transmitter	\$20,000.00	\$20,000.00	Disconnect transmitter and components from existing configuration and move within building to make way for new facilities.	N/A	N/A

Site Survey - TX	\$25,000.00	\$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
Sub-total	\$3,547,125.67	\$3,008,229.22	N/A	\$2,507,220.44	N/A
Total for all systems	\$5,425,666.33	\$4,688,851.38	N/A	\$3,567,231.11	N/A

Components

Actual Information Description	File Name	
Sales Tax-EQ	Component Description:	WVVA- GATES- INTERIM-SALES TAX-INV GO10004797-1
	Amount:	\$11,941.38
UHF inside RF system including switching	Component Description: Amount:	WVVA - Gates - UHF inside RF including switching. US0329314 \$32,108.43
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp		

Component Description: Amount:	Int tx Electrical - Gates - US0322513 - Q- 73720; LIne C Only \$1,665.83
Component Description:	Revised attachment, Electrical work to install interim transmitter. 1st Inv 28780; PO 20699 \$18,975.06
Component Description: Amount:	Southern Air- Electrical for Interim TX ; Line 190111.3; INV 29487; PO 20699 \$38,775.94
Component Description: Amount:	WVVA-GATES INT 2ND INV GO10004797-2 ULXTE-30 LINE C \$1,665.83
Component Description: Amount:	WVVA-GATES- INTERIM ELEC- INV GO10004797- 1 LINE C. \$1,665.83

	Component Description:	Per RFAS, changed the requested amount to \$0. Interim Switch and Load addition per Quote Q-80535. Includes freight of \$878.03 N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description: Amount:	Lines A & B only. Third invoice for interim transmitter. INV US0322513; Quote Q-73720 \$150,773.07

UHF - Air Cooled Solid State Transmitter 19.2 kWComponent Description:Final invoice for plumbing - In TX - INV 29474 - PO 20663 Southern Air - bridge for tx line int tx - final invoice # 29497 - PO 20764 Amount:Southern Air - bridge for tx line int tx - final invoice # 29497 - PO 20764 Amount:Component Description:Southern Air - bridge for tx line int tx - final invoice # 29497 - PO 20764 Amount:Southern Air - bridge for tx line int tx - final invoice # 29497 - PO 20764 Amount:Component Description:Interim TX - 3rd invoice - US0322513 - Q- 73720 - Lines A and B only. N/AAmount:Component Description:Manunt:WVVA-GATES- INV 2ND INV GO10004797-2 LINES A B AND D - q-73720 Amount:Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Plumbing work to install Interim tx 1st inv 28777; PO 20663 Amount:			
Component Description:Final invoice for plumbing - Int TX - INV 29474 - PO 20663Amount:Southern Air - bridge for tk line int tx - final invoice # 29497 - PO 20764Amount:Southern Air - bridge for tk line int tx - final invoice # 29497 - PO 20764Amount:Suthern Air - bridge for tk line int tx - final invoice # 29497 - PO 20764Amount:Suthern Air - 20322513 - Q- 73720 - Lines A and B only.Amount:N/AComponent Description:Interim TX - 3rd invoice - US0322513 - Q- 73720 - Lines A and B only.Amount:N/AComponent Description:WVVA-GATES- INV 2ND INV GO10004797-2 LINES A B AND D- q-73720 Amount:Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764Component Description:Plumbing work to install Interim tx. 1st inv 28777; PO 20663			
Amount:\$4,173.93Component Description:Southern Air - bridge for tx line int tx - final invoice # 29497 - PO 20764Amount:\$22,581.63Component Description:Interim TX - 3rd invoice - US0322513 - Q- 73720 - Lines A and B only.Amount:WVVA-GATES- INV 2ND INV GO10004797-2 LINES A B AND D- q-73720Amount:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764Component Description:Plumbing work to install Interim tx. 1st inv 28777; FO 20663	State Transmitter 19.2 kW	Component Description:	plumbing - Int TX -
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bridge for tx line int tx - final invoice # 29497 - PO 20764Amount:\$22,581.63Component Description:Interim TX - 3rd invoice - US0322513 - Q- 73720 - Lines A and B only.Amount:N/AComponent Description:WVVA-GATES- INV 2ND INV GO 10004797-2 LINES A B AND D- q-73720Amount:Suthern Air - first invinit tx bridge work - INV 29114 - PO 20764Component Description:Southern Air - first invinit tx bridge work - INV 29144 - PO 20764Component Description:Southern Air - first invinit tx bridge work - INV 29144 - PO 20764Component Description:Pumbing work to install Interim tx. 1st inv 28777; PO 20663		Amount:	\$4,173.93
tx - final invoice # 29497 - PO 20764Amount:\$22,581.63Component Description:Interim TX - 3rd invoice - US0322513 - Q- 73720 - Lines A and B only.Amount:N/AComponent Description:WVVA-GATES- INV 2ND INV GO10004797-2 LINES A B AND D- q-73720Amount:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Plumbing work to install Interim tx. 1st inv 28777; PO 20663		Component Description:	Southern Air -
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Amount:73720 - Lines A and B only. N/AAmount:N/AComponent Description:WVVA-GATES- INV 2ND INV GO10004797-2 LINES A B AND D- q-73720 \$197,357.14Amount:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Plumbing work to install Interim tx. 1st inv 28777; PO 20663			
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Component Description:WVVA-GATES- INV 2ND INV GO10004797-2 LINES A B AND D- q-73720 \$197,357.14Amount:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Southern Air - first inv int tx bridge work - INV 29144 - PO 20764 \$27,275.37Component Description:Plumbing work to install Interim tx. 1st inv 28777; PO 20663			-
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work - INV 29144 - PO 20764 \$27,275.37 Component Description: Plumbing work to install Interim tx. 1st inv 28777; PO 20663		Component Description:	
Amount:\$27,275.37Component Description:Plumbing work to install Interim tx. 1st inv 28777; PO 20663			-
Component Description:Plumbing work to install Interim tx. 1st inv 28777; PO 20663			
install Interim tx. 1st inv 28777; PO 20663		Amount:	\$27,275.37
install Interim tx. 1st inv 28777; PO 20663			
1st inv 28777; PO 20663		Component Description:	-
20663			
Amount: \$11,285.07			
		Amount:	\$11,285.07

Component Description:	WVVA-GATES-
	INTERIM TX INV-
	GO10004797-1
	LINES A,B AND D.
Amount:	\$197,357.14
Component Description:	costs to install
	fiber optic, tower
	lighting, and bldg
	& cable demo.
	Southern Air - INV
	30500 - PO 20836
Amount:	\$42,809.67
Component Description:	Bldg & Cable
	demo portion of
	PO 20836. Final
	invoice for CO3.
	INV 31078
Amount:	\$12,595.86
Component Description:	Southern Air -
	move tx &
	components - INV
	27828 - PO 20574
	- see cover letter
	for further details.
Amount:	\$36,150.00
	Amount: Component Description: Amount: Component Description:

	Component Description:	WVVA - Southern Air - prim tx plumbing - INV 29104 - PO 20699
	Amount:	\$24,281.58
	Component Description:	WVVA - Southern Air - Prim Plumbing - INV 29487 - PO 20699
	Amount:	\$31,588.83
	Component Description:	Revised WVVA First invoice for plumbing work to install main tx. INV 28782 - PO 20699
	Amount:	\$8,920.59
Nitrogen and Oxygen		
	Component Description:	Cylinder rental nitrogen & oxygen for transmitter install activities. INV 9965974650
	Amount:	\$179.08
Sales Tax Equipment-Main TX		
	Component Description:	WVVA-Gates- Main-tx-sales-tax- GO10004796-1
	Amount:	\$26,329.58
Securirty - Site	Information not provided.	

Move and stage equipment	Component Description:	Time and material
	component Description.	invoice to move
		/stage/coordinate
		equipment
		installation. See
		attachments for all
		costs associated
		with this project.
		INV 1214; PO
		20965
	Amount:	\$45,327.00
25 Ton system		
	Component Description:	Progress payment
		for HVAC for
		WVVA. INV
		28131; PO 20591
	Amount:	\$119,386.25
	Component Description:	Progress invoice
		for HVAC system;
		INV 28767A - PO
		20591
	Amount:	\$20,817.75
2" Rigid Conduit and Wiring	Information not provided.	

Transformer 3 phase/480v - 300 KVA	Component Description	Electrical work to
	Component Description:	install main
		transmitter. 1st
		Invoice 28781; PO
		20699
	Amount:	\$25,408.24
	Component Description:	WVVA - Gates Air
		- Electrical - INV
		US0322512 Line E
		- 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
	Amount:	sheet. \$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-
	Amount:	\$3,881.50

amp	Component Description:	WVVA - Gates Air
		- RF Accessories -
		INV US0322512
		Line C - 3rd
		invoice - PO
		20027 - Q-73721
	Amount:	\$14,880.19
	Component Description:	WVVA change
		orders: Q-82352
		PO 20727; Q-
		82564 PO 20742;
		Q-83542 PO
		20818; Q-84797
		PO 20924
	Amount:	\$12,055.00
	Component Description:	WVVA GATES
	component Description.	2ND INV
		GO10004796-2
		LINE C
	Amount:	\$14,880.19
	Component Description:	WVVA-Gates-
		Main-RF-INV GO10004796-1,
		LINE C
	Amount:	\$14,880.19
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
UHF - Liquid Cooled Solid		
State Transmitter 35 - 50 kW	Component Description:	WVVA-GATES
		MAIN- 2ND INV
		GO10004796-2 -
		LINE A B E AND
		CHANGE ORDER
	•	TO MASK Q-77979
	Amount:	\$436,245.43

Component Description:	WVVA - Gates - Main TX - INV US0331604 - PO 20027 Q-73721 Lines A and E. Plus Freight \$13762.82 \$106,077.17
Component Description:	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
Amount:	\$333,782.24
Component Description: Amount:	costs to move tx from storage site to tower site. INV 27828; PO 20574 N/A
Component Description:	WVVA-Gates- MAIN-TX - INV GO10004796-1 LINE- A, B and E
Amount:	\$420,064.70
Component Description:	Final invoice for plumbing of prim tx portion of PO 20699; INV 29104 \$24,281.58
Anount.	Ψ ∠ Ψ,∠01.00

	Component Description: Amount:	2nd invoice for plumbing for main tx; INV 29487; PC 20699 N/A
	Component Description:	Plumbing work to install main transmitter; 1st inv
	Amount:	28782; PO 20699 N/A
Transmitter - Training	Information not provided.	
Disconnect existing Transmitter	Information not provided.	
Site Survey - TX		
	Component Description:	WVVA-SURVEY- INV-QC18-031
	Amount:	\$14,000.00

Antennas

Cost Information

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Interim Antenna TFU-8WB-R	\$616,817.50	\$97,680.50		\$57,872.42	
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
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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,991.92	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

Primary Antenna	\$207,254.30	\$205,964.30		\$129,387.63	
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 equipmer and installation c equipment
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
FREIGHT- MFG EQ	\$2,227.50	\$2,227.50	FREIGHT EQ MFG TO STAGING PER INVOICE-93049	\$2,227.50	N/A

Fire and EMS Services for antenna install	\$1,564.30	\$1,564.30	Required Fire and EMS services for helicopter lift of antenna.	\$700.00	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
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	\$180,000.00	\$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
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 Chang orders Q 82352, Pe 20727 and 83542, Pe 20924. Amount is s below the predetermin cost estima of \$13,70

Sub-total	\$824,071.80	\$303,644.80	N/A	\$187,260.05	N/A
Total for all systems	\$5,425,666.33	\$4,688,851.38	N/A	\$3,567,231.11	N/A

Components

Actual Information Description	File Name	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Component Description: Amount:	Revised with cover letter. WVVA - Resonant - Sweep test - INV RR3267 - PO 20907 \$3,991.92
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Component Description: Amount:	WVVA-INTERIM ANT line 1- 2nd 45 percent inv \$20,216.25
FREIGHT-MFG EQ	Component Description: Amount:	WVVA-DIE-ANT- INTERIM-SALES TAX- PER INV- 93049 LINE 19 - ADDED ORDER CONF 488001 \$2,227.50

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Component Description: Amount:	WVVA-DIE-ANT- INV 93049 LINE 1 \$4,492.50
	Component Description:	Electrical work to move conduits & fiber to new bridge to install In Antenna; INV 29887; PO 20811
	Amount:	\$6,728.00
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Component Description: Amount:	INTERIM ANT- LINE1 WVVA \$20,216.25
Fire and EMS Services for antenna install	Component Description: Amount:	Required EMS services for helicopter antenna lift: 2 ambulances and 2 crews for 4 hours. \$700.00
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	

Sweep test of existing antenna	Component Description:	SWEEP MAIN ANTENNA DEPOSIT INV
	Amount:	WVVA \$2,240.00
	Component Description:	SWEEP MAIN ANT DEPOSIT INV 10 PERCENT
	Amount:	WVVA \$640.00
UHF - High Power Top Mount One Station antenna elliptically or circularly polarized	Component Description:	Total invoice less V-POL upgrade.
	Amount:	WVVA - Dielectric - Antenna - INV 568008 \$54,294.75
	Component Description: Amount:	MAIN ANTENNA DEPOSIT INV 10 PERCENT WVVA \$14,694.75
	Amount.	\$14,094.7 0
	Component Description:	7-6-2020 Zeroed out request and entered under new component. Antenna costs w/o VPOL charges - Dielectric - INV 568008
	Amount:	N/A

	Component Description:	This the 1st invoice for Proposal # 19358- 5A on PO 20776 for the Main Antenna install N/A
	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 ANT DEPOSIT 35 PERCENT INV WVVA
	Amount:	\$51,431.63
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Amount:	ELBOW MAIN DEPOSIT INV 35 PERCENT WVVA \$4,189.50
	Component Description:	ELBOW - DEPOSIT 10 PERCENT WVVA
	Amount:	\$1,197.00

Transmission Line

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$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		\$10,675.22	
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.	\$10,675.22	N/A
Sub-total	\$62,852.00	\$79,577.50	N/A	\$21,846.72	N/A
Total for all systems	\$5,425,666.33	\$4,688,851.38	N/A	\$3,567,231.11	N/A

Components

Actual Information
Description

File Name

Flexible Air Transmission Line - dielectric, 4"	Component Description:	WVVA DIE-LINE- EQ-INV 93049 LINES 2 AND 18- FINAL. TOOL ZEROED OUT INTERIM ANT
	Amount:	\$1,117.14
	Component Description:	WVVA- INTERIM LINE - 2nd 45 percent inv- lines 2 and 18
	Amount:	\$5,027.18
	Component Description:	INTERIM LINE INV 45 PERCENT- LINES 2 AND 18
	Amount:	\$5,027.18
Disconnect existing Interior RF components	Information not provided.	
Rigid Transmission Line - copper, 6 1/8"	Component Description:	Revised INV 626021 - freight for cut line sections - order #
	Amount:	469001 \$5,367.47
	Component Description:	MAIN LINE - DEPOSIT 10 PERCENT INV WVVA
	Amount:	\$5,307.75

Component Description:	Zeroed out and resubmitted under additional line. Freight for cut lengths of line. INV 626021 - Order # 459001 N/A
Component Description:	5-18-20 Previously reimbursed. 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. N/A
Component Description: Amount:	MAIN LINE DEPOSIT 35 PERCENT INV WVVA \$18,577.13

Tower Equipment and Rigging Costs

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Primary Tower TOWER	\$591,600.00	\$911,750.00		\$686,931.47	
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
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$511,595.00	Per Actual invoices from PCI for Main & Int Antenna installs.	\$511,595.00	Costs are actual per vendor invoices.
Sub-total	\$591,600.00	\$911,750.00	N/A	\$686,931.47	N/A
Total for all systems	\$5,425,666.33	\$4,688,851.38	N/A	\$3,567,231.11	N/A

Components

Actual Information	
Description	File Name

Structural engineering tower load study for well documented tower	Component Description: Amount:	WVVA- TOWER MAP - FORD INV 206593 \$3,120.00
	Component Description: Amount:	WVVA-PJFORD ANALYSIS- INV 206072 \$1,800.00
Minor tower reinforcement /modifications	Component Description: Amount:	PCI Tower Mods; PO 20776; addendum to Proposal 19355- 5A; INV 7750 \$41,031.47
	Component Description: Amount:	Tower Modifications; PCI ; INV 7747; PO 20776 \$129,385.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Amount:	Third invoice for interim antenna installation on PO 20776; INV 7748 \$25,835.00
	Component Description:	11-27-19 WVVA - PCI - Main Install - INV 7729 - Proposal 19358- 5A - See cover sheet for PO breakdown.
	Amount:	\$58,440.00

Component Description: Amount:	WVVA - PCI - Tower Mods 1st invoice 7685 - PO 20776. See cover letter. \$129,385.00
Component Description:	Costs to install interim antenna. 1st invoice. INV 7686; PO 20776. See cover letter for breakdown of PO \$25,835.00
Component Description: Amount:	PCI - Interim Installation - INV 7728 - Proposal # 19356-5A - see cover sheet for PO breakdown. \$25,835.00
Component Description:	11-27-19 - WVVA - PCI - Tower Mods - INV 7727 - Proposal 19355- 5A. See cover sheet for PO breakdown. \$129,385.00
Component Description: Amount:	Main antenna install. WVVA - PCI - INV 7749 - PO 20776 \$58,440.00

Component Description:	Proposal 19358-
	5A Main Antenna
	Installation. INV
	7687 - PO 20776
Amount:	\$58,440.00

Outside Professional Services

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificati
Outside Professional Services	\$323,837.00	\$310,035.00		\$122,172.57	
General Repack Legal Services	\$10,000.00	\$10,000.00	See attached memo-QMI Repack Invoice Memo for Shared Legal Expenses (Matter 10441100054) for Form 399-	\$7,939.16	N/A
General Consulting Engineering Services	\$2,400.00	\$2,400.00	General engineering services not captured under other category	\$2,400.00	N/A
Vendor Travel expenses	\$21,965.00	\$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
Tower Modification Drawings	\$2,200.00	\$2,200.00	Tower modification drawings per actual invoice	\$2,200.00	N/A

Structural Analysis	\$600.00	\$600.00	Engineering services per actual invoice	\$600.00	N/A
Quarterly reporting	\$7,000.00	\$7,000.00	Preparation and submittal of the FCC required quarterly report 387 by PM and attorney.	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$0.00	N/A

Address transition	\$2,630.00	\$2,500.00	N/A	N/A	N/A
timing and coordination issues w/ other stations and wireless					
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
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
Sub-total	\$323,837.00	\$310,035.00	N/A	\$122,172.57	N/A
Total for all systems	\$5,425,666.33	\$4,688,851.38	N/A	\$3,567,231.11	N/A

Components

Actual Information	
Description	File Name

General Repack Legal

Services

Component Description: BROOKS-WVVA-JAN-18 INV 3949058 \$49.50 Amount: **Component Description:** WVVA-BROOKS-OCT-19-INV3959632 Amount: \$198.00 **Component Description: Brooks Repack** Legal Services period ending Jan '19; INV 3962868 Amount: \$260.00 **Component Description:** WVVA Repack Legal Services for period ending April 30, 2019. INV 3966163 Amount: \$156.00 **Component Description: Brooks Repack** Legal Services period ending Nov '19; INV 3975577 Amount: \$126.00 **Component Description: Brooks General** Repack legal services for period ending April 30, 2018. \$28.29 is WVVA portion of total invoice Amount: \$28.29

Component Description:	Brooks General Repack Legal Services period ending June 30, 2017. \$266.45 is WVVA portion of total invoice. \$266.45
Component Description: Amount:	Brooks Repack Legal Services period ending July '19; INV 3970203 \$312.00
Component Description:	Reimbursement for WVVA's portion of this invoice. See cover letter. Brooks Repack Legal Service August '19; INV 3971022 \$260.00
Component Description: Amount:	Brooks Repack Legal Services period ending Feb '19; INV 3964372 \$52.00
Component Description: Amount:	Brooks Repack legal services period ending Nov '18; INV 3960719 \$297.00

Component Description: Amount:	Brooks General Repack legal services for period ending March 31, 2018. \$28.28 is WVVA portion of total invoice. \$28.28
Component Description:	REVISED Brooks Repack Legal Services for period ending Oct 2019; INV 3974482. SEE cover letter for explanation of why not asking for total amount. \$3,358.50
Component Description:	Brooks General Repack legal services for period ending December 31, 2017. \$40.28 is WVVA portion of total invoice \$40.28
Component Description: Amount:	Brooks Repack Legal Services period ending Oct '17; INV 3945577 \$141.00

	75.00 is ortion of
ending No. 30, 2017.	egal for period ovember \$221.58 portion of
Component Description:Brooks G Repack le services f ending Fe 28, 2018. WVVA po total invoi \$28.28Amount:\$28.28	egal for period ebruary \$28.28 is ortion of
ending Au 2017. \$17	egal for period ugust 31, 77.86 is 1 ral invoice
Component Description:WVVA - EJULY18 I3955736Amount:\$99.00	

Component Description: Amount:	Brooks - General Repack Legal for period ending October 31, 2017. \$322.29 is WVVA portion of total invoice. \$322.29
Component Description: Amount:	Brooks Repack Legal Services period ending June '19; INV 3968514 \$156.00
Component Description: Amount:	Brooks General Repack Legal Services for period ending January 31, 2018. \$35.36 is WVVA of total invoice \$35.36
Component Description:	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 inv10-16- ADDED BROOKS MEMO \$221.58
Component Description: Amount:	WVVA- BROOKS- DEC18-INV3961877 \$198.00

/VA-BROOKS- \Y18 - /3953763 9.50
ooks General pack Legal rvices for period ding May 31, 17. \$190.85 is /VA portion of al invoice. 90.85
ooks-WVVA eneral SEPT17 9 3944708 0.64
/VA-BROOKS- /-3951200- AR18 9.50
/VA BROOKS IG18 - INV 57123 98.00
ooks Repack gal Services riod ending Dec '; INV 3947924 88.00

Component Description: Amount:	Brooks-WVVA- General JUNE17 inv 3941325 - ONE SEVENTH SEE MEMO \$266.44
Component Description:	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 \$322.32
Component Description: Amount:	Brooks Repack Legal Services period ending Nov '17; INV 3946864 \$47.00
Component Description: Amount:	Brooks-WVVA- General JULY17- inv 3942230 - ONE SEVENTH SEE MEMO \$275.00
Component Description: Amount:	Brooks-General- MAY17-GEN INV 3940170 -ONE SEVENTH- SEE MEMO \$190.85

	Component Description: Amount: Component Description: Amount:	WBNG-BROOKS APRIL18 INV 3952583 \$99.00 Brooks-WVVA- General-AUG17 inv \$117.85
General Consulting Engineering Services	Component Description:	Consulting
		Engineer services: re: transmitter size.
		INV 202001-0275-
		07. NOTE: Vendor name is Lohnes &
		Culver; "and" was
		substituted for special character "&".
	Amount:	& . \$2,400.00
Vendor Travel expenses		
	Component Description:	WVVA - QCOMM - PM TRVL- JAN-
		JUN 19 - INV QC19-
		063
	Amount:	\$6,240.00
	Component Description:	WVVA- PM-Travel
		exp -Items-
		1010,1014,1015 -
		INV QC17-148

Tower Modification		
Drawings	Component Description:	Tower Modification drawings. INV 216116. NOTE: Vendor Name is actually Paul J. Ford & Company; since the tool does not allow for special characters, "and" has been substituted for "&" in the Vendor Name field. \$2,200.00
Structural Analysis		
	Component Description:	Structural analysis of existing tower. INV 213698. NOTE: Vendor Name is actually Paul J. Ford & Company; since the tool does not allow special characters, "and" has been substituted for "&". \$600.00
Quarterly reporting	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	LEGAL JULY17 WVVA \$1,626.00
	Component Description: Amount:	LEGAL MAY17 WVVA \$453.00
	Component Description: Amount:	LEGAL JUNE17 WVVA \$359.00
	Component Description: Amount:	LEGAL 4-17-INV \$470.00
	Component Description: Amount:	LEGAL SEPT17 WVVA \$141.00
	Component Description: Amount:	LEGAL AUG17 \$470.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	ENGR NEW CH ASSIGN WVVA IN \$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	Component Description:	WVVA-PM- 8THRU12-INV
		QC18-023
	Amount:	\$8,602.50
	Allowitt.	\$0,00 <u>2</u> .00
	Component Description:	WVVA-QCOMM
	eenipenen zeeenpuen	PM- JAN - JUN 19 -
		INV QC19-063
	Amount:	\$50,250.00
	Component Description:	PM-WVVA
		DEPOSIT INV
	Amount:	\$70,007.50
	Component Description:	WVVA-PM-AUG-
		DEC18- INV QC19-
		021
	Amount:	\$6,150.00
	Component Description:	WVVA-QCOMM-
		PM 1THRU3-18 -
	Amount:	INV QC18-051 \$7,875.00
	Amount.	φ1,615.00
	Component Description:	WVVA - QCOMM
		PM 4THRU7-180
		INV QC18-065
	Amount:	\$3,015.00
	Component Description:	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.
	Amount:	\$18,412.50

Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	RF Consulting Engineer Services NOTE: Vendor name is Lohnes & Culver; since the tool doesn't recognize special characters, "and" has been substituted for "&". \$3,520.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	ENGR- CP - INV \$1,970.00

Other Expenses

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificat
Other Expenses	\$76,179.86	\$75,614.86		\$41,799.86	
Required Newspaper Notifications	\$2,115.21	\$2,115.21	Required newspaper ads notifying of frequency change.	\$2,115.21	N/A
MVPD Notification of Channel Change	\$7,900.00	\$7,900.00	Required FCC notification. Costs per actual invoices.	\$7,900.00	N/A
Develop and air announcement of upcoming channel change	\$15,000.00	\$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

Equipment Storage	\$21,084.65	\$21,084.65	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.	\$21,084.65	N/A
Equipment Delivery and Handling Charges	\$8,000.00	\$8,000.00	Transport, forklift rental and handling fees from staging area to transmitter site.	\$7,750.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$10,000.00	\$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
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	\$11,000.00	N/A	\$2,950.00	N/A

Sub-total	\$76,179.86	\$75,614.86	N/A	\$41,799.86	N/A
Total for all systems	\$5,425,666.33	\$4,688,851.38	N/A	\$3,567,231.11	N/A

Components

Actual Information Description	File Name	
Required Newspaper Notifications	Component Description:	Required newspaper notifications of frequency change for WVVA.
	Amount:	\$2,115.21
MVPD Notification of		
Channel Change	Component Description:	WVVA - Radio Greenbrier - med notif - INV 19100095 - PO 20889. NOTE: The PO is for 3 stations; this request is only for 1 of the stations, or 1/3 of the PO. See cover letter.
	Amount:	\$600.00
	Component Description:	WVVA - Radio Greenbrier - med notif ads - INV 19100094 - PO 20889. NOTE: PO is for 3 stations, this request is only for one station. See cover sheet.
	Amount:	\$600.00

Component Description:	Radio Greenbrier Med Notif for WKCJ-FM 93.3. INV 19100096 - PO 20889. NOTE: PO is for 3 stations total. This invoice requests reimbursement for 1 /3 of the PO total. \$600.00
Component Description:	WVVA Radio Notifications for WKQB-FM- INV 19100131 - PO 20888 \$450.00
Component Description: Amount:	WVVA Radio notifications for Willie 94.5 - INV 19100130 - PO 20888 \$600.00
Component Description:	WVVA Radio Notifications for WKQR-FM - INV 19100119 - PO 20888 \$500.00
Component Description:	WVVA Radio Notifications for WKEZ-AM - INV 439160-1 - PO 20888 \$400.00
Amount.	φ4 00.00

n V 4 2	VVVA Radio otifications for VHAJ-FM - INV 39154-1 - PO 0888 800.00
	VVVA - WSTG adio notifications - NV 191000406 - PO 20890. NOTE: The actual ompany name is L A P Broadcasting, out since the tool oesn't allow for pecial characters, and" has been ubstituted for the &" in the Vendor lame. 800.00
ra 2	VVVA - WJLS-FM adio notifications; NV 243848-1 - PO 0894
Amount: \$	1,250.00
n V 4	VVVA - radio otifications for VHIS-AM - INV 39161-1 - PO 0888
Amount: \$	400.00
ra II	VVVA - WJLS-AM adio notifications - NV 243846-1 - PO 0894
Amount: \$	

Develop and air	Information not provided.
announcement of	
upcoming channel change	

Component Description: Amount:	WVVA ONLY: 1st QTR 2018 storage fees \$1,800.00
Component Description: Amount:	Storage fees 3rd qtr 2018 - Caseys INV 1012 \$1,800.00
Component Description: Amount:	Caseys 3rd qtr 2019 storage fee - INV 1033 \$1,800.00
Component Description: Amount:	WVVA - Caseys - 1st qtr rent 2019 - INV 1027 \$1,800.00
Component Description: Amount:	WVVA - 2nd QTR 2019 storage fees - INV 1030 \$1,800.00
Component Description:	WVVA - trailer for equipment storage - inc delivery of trailer - INV 649025 - sales order 459001
Amount:	\$10,284.65
Component Description: Amount:	WVVA - Caseys - 2nd qtr 2018 - INV 1009 \$1,800.00

Equipment Storage

Equipment Delivery and Handling Charges	Component Description:	Forklift rental fee for 1/11/2018 - Caseys - INV1004
	Amount:	\$250.00
	Component Description:	WVVA - forklift rental and equipment delivery fee - CAseys INV 1036
	Amount:	\$7,500.00
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.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	Component Description:	WVVA - RF Notifications - Medical Notificatior Mailing - INV 1327 - PO 20008
	Amount:	\$2,950.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$5,425,666.33	\$4,688,851.38	\$3,567,231.11

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		 The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	
		3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8.	The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	BRADY DREASLER CORPORATE DIRECTOR OF ENGINEERING

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it 	
is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	BRADY DREASLER CORPORATE DIRECTOR OF ENGINEERING

Attachments