

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

57840 Service: DTV Call **WSLS-TV** Channel: 34 (UHF) Facility Sign:

ID:

File 0000027856

Number:

FRN: 0025636598 Date 04/22

> Submitted: /2020

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAHAM MEDIA GROUP, VIRGINIA, LLC Doing Business As: d/b/a WSLS-TV	Ricky Williams 401 Third Street SW Roanoke, VA 24011 United States	+1 (540) 512-1542	rwilliams@wsls. com	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email	
[Confidential]				

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
William T Godfrey , Jr Consulting Engineers Kessler and Gehman Associates, Inc.	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507-D NW 60th Street Gainesville, FL 32607 United States	+1 (352) 332-3157	jeff@kesslerandgehman. 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	Replace main and aux transmitters. Replace old analog antenna system with new antenna system designed for assigned channel. Operate existing main through assigned phase. Replace aux antenna and line. Map and analyze tower; design and modify if needed.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Diamond
	Year	2007
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.8 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TMU9
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.8 kW
	Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be retuned to the assigned channel. See attachment.

Auxiliary Transmitter

Other Transmitter Costs

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

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

Auxiliary Transmitter **Other Transmitter Cost Not Listed**

Transmitter Information not provided.

Primary Transmitter

Existing Transmitter Information

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
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Sigma
	Year	2007
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	30 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?	No
	Manufacturer	
	Model	THU9EVO- 24
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	37 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be retuned to the assigned channel. Therefore, a new Rohde & Schwarz THU9EVO-24 is being purchased.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Switchgear (industrial 800 amp)	No

	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Additional electrical service needed for the new transmitter and RF plumbing installation.
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?	Yes
	Size	700.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Nan	ne	Description
		·

Transmitter Remote Control	Modification of the transmitter Remote Control system is required for it to interface with the new transmitters.
Ice Bridge	Ice Bridge
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line

Antennas

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

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	65.0 kW

Manufacturer	
Model	TLP-24H
Year	2001

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	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?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	8.6 kW
	Manufacturer	
	Model	TLP-24H(C) VP

Year	2018
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	No

Other Antenna Cost Not Listed

Name	Description
UHF Lower Power Side Mount, One station antenna-medium power 50-200 kW, horizontally polarized	UHF Lower Power Side Mount, One station antenna-medium power 50-200 kW, horizontally polarized
Sweep test of existing antenna	Sweep test of existing 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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TFU- 30DSC-R- C170
Year	2006

New Antenna Costs

Section	Question	Response
New Antenna	Use	Primary (Main)
Description	Description of Use	Primary (Main) N/A Purchase New Yes Owned N/A No Yes Yes Yes Full Power Top Mount Not in Stack Elliptical Slotted Coaxial N/A N/A 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?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Elliptical Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	Purchase New Lipment? Yes Owned N/A No Yes Close Yes Full Power Top Mount Not in Stack Elliptical Slotted Coaxial N/A N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	930.0 kW
	Manufacturer	
	Model	

Year	2018
Justification for New Antenna	The existing primary antenna is a single channel slot which cannot accommodate the assigned channel. The proposed antenna is epol which is considered an upgrade with a 15% delta in costs according to manufacturer. However, the 399 is budgeted for h-pol.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel

	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Name	Description
Troubleshoot Antenna	Troubleshoot Antenna
Mounting Support Pole	Required for top mounting main antenna (first priority station)

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

Auxiliary Transmission

Add Transmission Line

Section Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	ERI
Line Manufacturer and Type	Туре	Flexible Air
	Diameter	Other
	Other Diameter	2 1/4 inches
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	200 feet per run

Auxiliary Transmission

Other Transmission Line Expenses Not Listed

n <mark>Laine</mark>	Description
Sweep Tests	Sweep test to verify performance on assigned channel.

Primary Transmission Line

Existing Transmission 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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	225 feet per run

New Transmission Line

Primary Transmissio

	New Transmission Line		
OI	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	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	270 feet per run
		Justification for New Transmission Line	New longer line for top mount antenna must be larger diameter to achieve assigned ERP. This must be done to recover lost coverage area since the station will receive in excess of 1% interference.

Other Transmission Line Expenses Not Listed

Primary
Transmission of 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?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1024381
Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	37° 12' 03.3" N-
1983))	Longitude (NAD83)	080° 08' 52.8" W-
	Overall Structure Height	242.78 feet
	Support Structure Height	170.93 feet

Ground Elevation Above Mean Sea Level (AMSL)	3720.10 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Graham Media Group, Virginia, LLC
Date Constructed	01/01/1980

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:	Serious 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

Name	Description

Transmission Line Layout	Transmission Line Layout Prior to Mobilization
Other	Other

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	500
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes

	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	Yes

Number of Days	45
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

Outside Professional

Other Professional Services Expenses Not Listed

Services Costs	Description
Other Engineering Services	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PMthe PM total has been reduced to 600 hrs (\$90,000 at \$150/hr), & a new OES category has been created & funded with the money removed from PM.
Other Legal Services	Other Legal Services related to the DTV Repack
Architectural and Engineering	Architectural and Engineering for New Transmission Facility. See Quote attached to Osborn inv 29014

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description	
Heavy equipment rentals	Required for Decom	
Тах	Tax	
Site fence modifications	Site fence modifications	

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
Primary Transmitter THU9EVO-24	\$2,788,205.49	\$1,312,505.49		\$1,147,889.99	
Transmitter Remote Control	\$20,485.50	\$20,485.50	See invoices and quotes	\$19,950.00	N/A
Ice Bridge	\$6,458.00	\$6,458.00	See attached /uploaded PDF file titled "Mtn Valley 3858 v191210jgv1. pdf"	\$6,458.00	N/A
Other Building Addition Size: 700.0	\$68,711.99	\$68,711.99	Need concrete pad for new heat exchangers which also require cable trays, conduit and an ice shield due to extreme weather conditions atop the mountain.	\$68,711.99	See attached Osborn Engineering Quote and summary page for additional details.

Other Electrical Service: Additional electrical service needed for the new transmitter and RF plumbing installation.	\$100,000.00	\$100,000.00	N/A	\$57,665.00	See attached Osborn Engineering Quote and summary page for additional details.
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	\$4,120.00	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$718,800.00	\$701,250 is the difference between \$233,750 invoice 9500076219 (which was Forwarded For Payment) for the originally specified IOT transmitter and the remaining balance due for the new THU9EVO- 24 transmitter.	\$718,800.00	N/A
Additional Interior RF System	\$140,000.00	\$140,000.00	N/A	\$38,435.00	N/A

Two IOT system (50 kW)	\$954,000.00	\$233,750.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***This is the cost for a new 2- tube, DCX Paragon-2 MSDC-IOT digital UHF transmitter from the most recent Comark price list.	\$233,750.00	N/A
Auxiliary Transmitter TMU9	\$164,200.00	\$116,865.01		\$89,505.01	
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$8,940.00	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$80,565.01	N/A	\$80,565.01	N/A
Sub-total	\$2,952,405.49	\$1,429,370.50	N/A	\$1,237,395.00	N/A
Total for all systems	\$6,098,361.09	\$3,367,978.35	N/A	\$2,571,912.22	N/A

Components

Actual Information		
Description	File Name	

Transmitter Remote Control		
	Component Description:	Bohn 200190 v190911pmv1
	Amount:	\$535.50
	Component Description:	Bohn inv #200249 Remote Control
	Amount:	UL20190118jgv1 \$19,950.00
Ice Bridge		
	Component Description:	Mtn Valley 3858 v191210jgv1
	Amount:	\$6,458.00
Other Building Addition Size: 700.0	Component Description:	Osborn inv #28226
		Prof Srvs 1-27-18 to 2- 23-18
	Amount:	UL20181101jgv1 \$11,191.82
	Component Description:	Inv 1034840 WSLS Professional Services
	Amount:	UL20180511jgv1 \$494.50
	Component Description:	Lionberger 1333-01 v190628jgv1
	Amount:	\$44,801.00
	Component Description:	Airgas 9091902591 v200304pmv1
	Amount:	\$122.82
	Component Description:	Osborn inv #29392 In house printing
		UL20181101jgv1

Component Description: Osborn inv #25404R

Facility Elec Survey

and Condition

Assessment

UL20190411jgv6

Amount: \$11,825.93

Component Description: Osborn inv #25404R

Facility Building

Survey and Condition

Assessment

UL20190205jgv4

Amount: \$5,375.00

Component Description: Airgas 9964478430

v200304pmv1

Amount: \$29.92

Other Electrical Service: Additional electrical service needed for the new transmitter and RF plumbing installation.

Component Description: R&S 9500084015

v190528jgv1 \$57,165.00

Amount:

Component Description: Osborn inv #25404

Facility Elec Survey and Condition

Assessment

UL20181203jgOsborn inv #25404R Facility Elec Survey and

Condition
Assessment
UL20190205jgv4

Amount: \$6,450.93

Component Description: Developed a Solution

for Electrical and HVAC on New Channel - Also See attached "KGA Quote"

Amount: \$500.00

Component Description: WSLS Osborn inv

#29669 Prof Srvs through 7-29-18 UL20180726jgv1 \$60,252.10

Amount:

Transformer 3 phase /480v - 150 KVA

Component Description: R&S 9500085911

v190528jgv1

Amount: \$4,120.00

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW

Component Description: R&S 9500100009

v200422pmv3

Amount: \$16,000.00

Component Description: R&S 9500094125

v200304pmv1

Amount: \$1,550.00

Component Description: R&S inv

#9500092026 THU9EVO-24

transmitter 25 pct final pmt UL20190111jgv1 ... applied to correct THU9EVO-24

component on 190124

\$233,750.00

Component Description: R&S inv

Amount:

#9500092024 THU9EVO-24

transmitter 50 pct pmt 2 UL20190111jgv1 ... applied to correct THU9EVO-24

component on 190124

Amount: \$467,500.00

Additional Interior RF System

Component Description: R&S 9500086411

v190528jgv1

Amount: \$11,300.00

Component Description: R&S 9500102206

v190625jgv1

Amount: \$11,560.00

Component Description: R&S inv

#9500092053 CH 30 Main TX to Magic T

input

UL20190418jgv1

Amount: \$4,775.00

Component Description: Developed a Solution

for Transmitter &
Mask Filter on New
Channel - Also See
attached "KGA Quote"

Amount: \$750.00

Component Description: R&S inv

#9500092053 Ext Heat Exchanger on

Station Load UL20190418jgv1

Amount: \$10,050.00

Two IOT system (50 kW)		
	Component Description:	Inv: WSLS THU9EVO-
		24 transmitter 25%
		down pmt
		UL20180312
	Amount:	\$233,750.00
	Component Description:	R&S inv
		#9500092024
		THU9EVO-24
		transmitter 50 pct pmt
		2 UL20190111jgv1
	Amount:	\$467,500.00
	Component Description:	R&S inv
	Component Bosonption.	#9500092026
		THU9EVO-24
		transmitter 25 pct final
		pmt UL20190111jgv1
	Amount:	\$233,750.00
Switchgear - industrial		
300 amp	Component Description:	R&S inv
		#9500092053 WSLS
		Aux TX
		UL20190418jgv1
	Amount:	\$8,940.00

UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW

Component Description: Inv: WSLS TMU9-3

aux transmitter 25%

down pmt UL20180313

Amount: \$20,141.25

Component Description: R&S inv

#9500092027 TMU9-

3 Aux TX 50 pct DP

upon delivery UL20190117jgv1

Amount: \$40,282.51

Component Description: R&S inv

#9500092025 TMU9-3 Aux TX 25 pct final

pmt UL20190117jgv1

Amount: \$20,141.25

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU- 30DSC/VP-R C170	\$495,086.00	\$566,175.50		\$479,846.20	
Mounting Support Pole	\$163,016.00	\$163,016.00	Required for top mount support (refer to attached quote). The site's access road cannot accommodate the 70' top mount pole, which required cutting it in half; see attached Change Order included with Dielectric inv MAN00606	\$99,914.40	N/A
Troubleshoot Antenna	\$3,120.00	\$3,120.00	See attached /uploaded PDF file titled "Velocitel 412574 v191210jgv1. pdf"	\$3,120.00	N/A

Auxiliary	\$222,039.00	\$57,798.00	***	\$49,369.00	
base cost)			has been superseded.		
n antenna			because line		
not included			locked		
antennas (if			adjusted and		
nigh power			Estimate		
rackets for	. , - 3-2-2	. ,	Notice:	. , =	-,
Side mount	\$23,150.00	\$9,787.50	***System	\$9,787.50	N/A
			(15%).		
			antenna		
			an e-pol		
			\$275,000 for		
			cost of		
			estimated		
			instead of the		
			\$240,000		
			only		
			pol antenna is		
			cost for an h-		
			estimated		
			Therefore, the		
polarized			delta.		
circularly			is a 15%		
elliptically or			which Dielectric said		
antenna ,			"h-pol only" which		
			budgeting for		
1000 kW), One station					
Mount (200-			an upgrade, the station is		and quote
Power Top			that e-pol is		invoices
UHF - High	\$289,500.00	\$371,469.00	Recognizing	\$351,121.30	Please se
1115 115-4	#200 F00 00	ФЭ 74 400 00	Dogo emilione	ΦΩΕ4 4Ω4 ΩΩ	Dlaas
antenna					
Sweep test of existing	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A
	ФС 7 00 00	#6 400 00	N1/A	Ф 2 Г 20 22	N1/A
if needed)			quoto.		
16. feedline			quote.		
nput, per 4 1			Dielectric		
antenna			attached		
channel, at			/8". See		
single			actually 6-1		
complex,			complex is		

Sweep test of existing antenna	\$3,200.00	\$3,200.00	N/A	\$3,200.00	N/A
UHF Lower Power Side Mount, One station antenna- medium power 50- 200 kW, horizontally polarized	\$11,629.00	\$11,629.00	N/A	\$4,550.00	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$2,700.00	N/A	\$1,350.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 8 - 10 kW input, directional,, elliptically or circularly polarized	\$0.00	\$0.00	N/A	\$0.00	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$28,816.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$28,816.00	N/A

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$5,107.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$5,107.00	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$6,346.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$6,346.00	N/A
Sub-total	\$717,125.00	\$623,973.50	N/A	\$529,215.20	N/A
Total for all systems	\$6,098,361.09	\$3,367,978.35	N/A	\$2,571,912.22	N/A

Components

Actual Information		
Description	File Name	

Mounting Support Pole		
	Component Description:	WSLS Die inv
		#MAN00607 Mt
		pole mod 45 pct
		pmt 2
		UL20181105jgv2
	Amount:	\$26,557.20
	Component Description:	WSLS Die inv
		#MAN00606 Mt
		pole mod 45 pct
		pmt 1
		UL20181105jgv2
	Amount:	\$26,557.20
	Component Description:	Inv MAN00430
	Component Seconpus	WSLS Support pole
		45 perc pmt 2
		UL20180713jgv1
	Amount:	\$46,800.00
roubleshoot Antenna		
	Component Description:	Velocitel 412574
		v191210jgv1
	Amount:	\$3,120.00

Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)

Component Description: Inv MAN00325

WSLS Elbow Complex

UL20180423jg

Amount: \$5,572.35

Component Description: Die 325012

v190723pmv1

Amount: \$1,238.30

Component Description: Inv MAN00430

WSLS Elbox comp 45 perc pmt 2 UL20180713jgv1

Amount: \$5,572.35

Sweep test of existing antenna

Component Description: Die 354022

v190918jgv3

Amount: \$640.00

Component Description: Inv MAN00430

WSLS Sweep tests 45 perc pmt 2

UL20180713jgv1

Amount: \$2,880.00

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

Component Description: Die 286003

v200115pmv6 \$29,735.00

Component Description:

Amount:

Die 325012 v190723pmv1

Amount: \$742.80

Component Description: Die 286003

Amount:

Component Description:

v190925pmv4 \$29,735.00

v190912pmv1

ERI WSLS-015

Amount: \$77,440.80

Component Description: Inv MAN00430

WSLS Main ant 45

perc pmt 2

UL20180713jgv1

Amount: \$80,562.60

Component Description: Invoice is being

applied to another component at the request of RFAS

v200324jg

Amount: N/A

Component Description: Die 286003

v190819jgv2

Amount: N/A

Component Description: Inv MAN00325

WSLS TFU-30DSC VP-R C170 etc Main Antenna UL20180423jg

Amount: \$140,030.10

Component Description: Die 345005

v190723pmv1

Amount: \$6,330.00

	Component Description: Amount:	R&S inv #9500092053 Main ant to RF Switch connection comps UL20190418jgv1 \$16,280.00
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description: Amount:	Inv MAN00430 WSLS Side mt brckts 45 perc pmt 2 UL20180713jgv1 \$9,787.50
Sweep test of existing antenna	Component Description: Amount:	Die 624027 v191127pmv3 \$3,200.00
UHF Lower Power Side Mount, One station antenna-medium power 50- 200 kW, horizontally polarized	Component Description: Amount:	Die 624027 v191127pmv3 (\$394.00)
	Component Description: Amount:	Die 624027 v191127pmv3 \$11,629.00
	Component Description: Amount:	Die 624027 v191127pmv3 (\$4,131.50)
	Component Description: Amount:	Die 624027 v191127pmv3 (\$2,553.50)

Component Description: Amount:	Die 624027 v191127pmv3 (\$1,350.00)
Component Description: Amount:	Die inv #274004 TLP-24 aux ant scatter analysis pmt 2 UL20190125jgv1 \$2,700.00
Component Description: Amount:	Die 624027 v191015pmv1 N/A
Component Description: Amount:	Inv: WSLS TLP-24H (C)VP aux antenna 50 percent down pmt UL20180316 \$28,816.00
Component Description:	Die inv #274004 TLP-24 aux ant brackets pmt 2 UL20190125jgv1
	Amount: Component Description: Amount: Component Description: Amount: Component Description:

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized

Component Description: Die inv #274004

TLP-24 aux ant pmt 2 UL20190125jgv1

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Amount: \$5,558.00

Component Description: Die inv #274004

TLP-24 aux ant test transition pmt 2 UL20190125jgv1

Amount: \$788.00

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
Primary Transmission Line	\$54,540.00	\$54,046.94		\$51,985.94	
Rigid Transmission Line - copper, 6 1/8"	\$54,540.00	\$54,046.94	N/A	\$51,985.94	N/A
Auxiliary Transmission Line	\$6,400.00	\$6,400.00		\$0.00	
Sweep Tests	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$60,940.00	\$60,446.94	N/A	\$51,985.94	N/A
Total for all systems	\$6,098,361.09	\$3,367,978.35	N/A	\$2,571,912.22	N/A

Components

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8"	Component Description: Amount:	Die 341010 v190905pmv2 \$343.70
	Component Description: Amount:	Die 286003 v200115pmv6 \$3,900.04
	Component Description: Amount:	Die 286003 v200115pmv6 (\$3,093.30)

Component Description: Varney 61865

v200325pmv2

Amount: \$1,376.00

Component Description: Inv MAN00430

WSLS Trans line 45

perc pmt 2

UL20180713jgv1

Amount: \$20,643.53

Component Description: Die 286003

v190819jgv2

Amount: N/A

Component Description: Inv MAN00325

WSLS

Transmission Line UL20180423jg

Amount: \$20,643.53

Component Description: Die 286003

v190925pmv4

Amount: \$3,900.04

Component Description: Die inv #202001

Nitrogen generator

UL20181102jgv1

Amount: \$8,172.44

Component Description: Die 341010

v190731pmv1

Amount: \$343.70

Sweep Tests Information not provided.

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
Primary Tower TOWER	\$1,512,447.70	\$418,344.51		\$323,743.20	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$203,477.00	N/A	\$108,875.69	N/A
Transmission Line Layout	\$6,500.00	\$6,500.00	N/A	\$6,500.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$30,470.00	The tower studies and modifications have turned out to be more complicated than originally anticipated (20180815jgv1)	\$30,470.00	The initial tower study was performed, and a potential issue with the top plate on the tower was discovered which required additional analysis.
Serious tower reinforcement /modifications	\$1,052,000.00	\$157,549.81	See attached / uploaded file titled, "ERI WSLS-TV- 003B v200304pmv1"	\$157,549.81	N/A

Other	\$20,347.70	\$20,347.70	See attached / uploaded PDF file titled "ERI WSLS-015A v200304pmv1. pdf"	\$20,347.70	N/A
Sub-total	\$1,512,447.70	\$418,344.51	N/A	\$323,743.20	N/A
Total for all systems	\$6,098,361.09	\$3,367,978.35	N/A	\$2,571,912.22	N/A

Components

Actual Information Description	File Name	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Amount:	Flash 90214863 v190910pmv1 \$384.05
	Component Description: Amount:	Flash 90215019 v190910pmv1 \$1,603.14
	Component Description: Amount:	Vert Tech 5000 v200304pmv1 \$1,200.00
	Component Description: Amount:	ERI inv #WSLS-001- 1 Ant and line install 50 pct pmt 1 UL20181127jgv2 \$105,688.50
Transmission Line Leveut	Allount	Ψ100,000.00
Transmission Line Layout	Component Description: Amount:	ERI 52482 v190912pmv1 \$6,500.00
Structural engineering tower load study for well		

documented tower

Component Description: Inv: WSLS Tower
Data Collection
UL20180402
Amount: \$2,720.00

Component Description: WSLS Malouf inv #1805084V4 Structural Analysis UL20180816jg v1

Amount: \$7,000.00

Component Description: Coordinate Tower

Modifications - Also See Attached "KGA

Quote"

Amount: \$1,250.00

Component Description: Develop an

Upgrade or Replacement solution for Tower -Also See Attached

"KGA Quote"

Amount: \$750.00

Component Description: Malouf 1905084V0

v191120gv2

Amount: \$2,500.00

Component Description: WSLS Malouf inv

#1805084V3

Structural Analysis UL20180815jg v1

Amount: \$3,500.00

Component Description: Inv 1805084V1

WSLS Mod Design

and Structural

Analysis

UL20180424jg v1

Amount: \$7,500.00

Component Description: Inv: WSLS

Structural Analysis

UL20180305

Amount: \$4,500.00

Component Description: Coordinate Tower

mapping & analyses
- Also See Attached

"KGA Quote"

Amount: \$750.00

Serious tower		
reinforcement/modifications	Component Description:	ERI inv #WSLS-TV-
		003 Tower mods 50
		pct pay 1
	Amarinti	UL20181102jgv1
	Amount:	\$54,360.00
	Component Description:	ERI WSLS-TV-
		003B v200304pmv1
	Amount:	\$7,225.50
	Component Description:	Site Res 249553
	23penent Boodilphoni	v190711jgv1
	Amount:	\$2,580.00
	Component Description:	ERI WSLS-TV-
	Proceedings of the control of the co	003A v190912pmv1
	Amount:	\$50,077.25
	Component Description:	WSLS ERI inv
		#WSLS-002 Tower
		work 50 perc dp
		UL20180731jgv2
	Amount:	\$22,664.56
	Component Description:	ERI inv #WSLS-001
		Tower work 50 perc
		pmt 1
		UL20181101jgv1
	Amount:	\$20,642.50
Other		
	Component Description:	ERI WSLS-015A
		v200304pmv1
	Amount:	\$20,347.70

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 Co
Outside Professional Services	\$568,301.70	\$549,306.70		\$292,959.74	
Architectural and Engineering	\$68,350.00	\$68,350.00	Architectural and Engineering for New Transmission Facility. See Quote attached to Osborn inv 29014	\$8,967.04	N/A
Other Legal Services	\$11,554.20	\$11,554.20	Other Legal Services related to the DTV Repack	\$11,447.55	N/A
Other Engineering Services	\$186,652.50	\$186,652.50	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 200 hrs (\$30,000 at \$150/hr), & the OES category has been funded with the money removed from PM.	\$170,782.50	N/A

Additional Field Engineering Service, 45 Days	\$90,000.00	\$90,000.00	N/A	\$23,600.00	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$550.00	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$625.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$6,000.00	\$3,000 for the 1% expansion initial 90-day CP application and \$3,000 for expansion facilities in the 1st priority filing window pursuant to DA 17-106 where costs reasonably incurred in the 1st priority window for expanded facilities will be	\$6,000.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$14,000.00	\$7,000 for the 1% expansion initial 90-day CP application and \$7,000 for expansion facilities in the 1st priority filing window pursuant to DA 17-106 where costs reasonably incurred in the 1st priority window for expanded facilities will be reimbursed.	\$14,000.00	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	\$30,000.00	The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and ongoing Actual Cost invoice prep and submission by KGA.	\$29,038.40	N/A

Project management of the transition	\$79,000.00	\$30,000.00	The majority of the PM hours and \$ has been moved to OES and the "Prepare and or review reimbursement form" components.	\$27,949.25	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 request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$0.00	N/A
Sub-total	\$568,301.70	\$549,306.70	N/A	\$292,959.74	N/A
Total for all systems	\$6,098,361.09	\$3,367,978.35	N/A	\$2,571,912.22	N/A

Components

Actual Information	
Description	File Name

Architectural and		
Engineering	Component Description:	Osborn inv #29014
	Compension 2 comparem	Prof Srvs thru 4-27-
		18 UL20181105jgv1
	Amount:	\$8,967.04
Other Legal Services		
Ü	Component Description:	Covington inv
	Component Besonption.	#60827770 Legal
		services thru
		181130
		UL20190308jgv1
	Amount:	\$102.60
	Component Description:	C&B 60847118
	Amount:	v190610pmv1 \$71.10
	Amount.	\$71.10
	Component Description:	Cov 60850674
		v190810jgv1
	Amount:	\$3,122.10
	Component Description:	Cov 60859434
	A	v191015jgv1
	Amount:	\$213.30
	Component Description:	C&B 60842539
		v190704jgv1
	Amount:	\$71.10
		0 222
	Component Description:	Cov 60855208
	Amount:	v191015jgv1 \$1,944.90
	Amount:	φ1, 344 .3U
	Component Description:	C&B inv #60836450
		Various legal
		UL20190405jgv1
	A	#400.05

Amount:

\$106.65

Component Description: Cov 60872956

v200305pmv2

Amount:

\$1,982.25

Component Description: WSLS Covington

inv #60812707 Review and file 2018 Q2 Progress

Report

UL20181019jgv1

Amount: \$68.40

Component Description: Covington inv

#60836450 Legal services thru 190131

UL20190308jgv1

Amount: \$106.65

Component Description: Cov 60867435

v191223jgv1

Amount: \$3,765.15

Other Engineering Services

Component Description: KGA inv #947-151

OES by WTG Jan

2019

UL20190308jgv1

Amount: \$2,725.00

Component Description: KGA inv #947-149

OES by WTG Nov

2018

UL20190308jgv1

Amount: \$5,350.00

Component Description: KGA inv #947-148

OES by WTG 181022-181031 UL20190308jgv1

Amount: \$1,600.00

Component Description: KGA 947-269

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

Amount:

v200202jgv1 \$4,357.50

Component Description: KGA 947-270

v200202jgv1 \$7,977.50

Component Description: KGA 947-267

v200202jgv1 \$8,012.50

Component Description: KGA 947-185

v190614pmv1 \$3,135.00

Component Description: KGA 947-188

v190614pmv1 \$6,427.50

Component Description: KGA 947-204

v191015jgv1 \$7,375.00

Component Description: KGA 947-186

v190614pmv1 \$2,152.50

Component Description: KGA 947-266

v200202jgv1 \$2,432.50 Component Description: KGA 947-265

v200202jgv1

Amount: \$2,535.00

Component Description: KGA inv #947-116

Site Visit Dec 2018 UL20190212jgv1

Amount: \$5,400.00

Component Description: KGA inv #947-104

Actual Cost invs 180607 - 180905 UL20180720jgv1

Amount: \$2,227.50

Component Description: KGA inv #947-134

Actual Cost invoices

Sept 18

UL20190212jgv1

Amount: \$125.00

Component Description: KGA 947-187

v190704jgv1

Amount: \$4,155.00

Component Description: KGA inv #947-113

OES Jul18 - Oct18 UL20180720jgv1

Amount: \$27,400.00

Component Description: KGA 947-188

v190704jgv1

Amount: \$6,427.50

Component Description: KGA inv #947-117

2018 Q4 387 UL20190212jgv1

Amount: \$300.00

Component Description: KGA inv #947-150

OES by WTG Dec

2018

UL20190308jgv1

Amount: \$5,225.00

Component Description: KGA 947-271

v200202jgv1

Amount: \$487.50

Component Description: KGA inv #947-136

Actual Cost invoices

Nov 18

UL20190212jgv1

Amount: \$2,775.00

Component Description: Inv 947-75 WSLS

Actual Cost

UL20180705jgv1

Amount: \$1,687.50

Component Description: KGA inv #947-135

Actual Cost invoices

Oct 18

UL20190212jgv1

Amount: \$100.00

Component Description: Inv 947-88 WSLS

OES Jan18 - Jun18

UL20180720jgv1

Amount: \$44,325.00

Component Description: KGA 947-187

v190614pmv1

Amount: \$4,155.00

Component Description: KGA 947-268

v200202jgv1

Amount: \$21,520.00

Component Description: KGA 947-186

v190704jgv1

Amount: \$2,152.50

Component Description: KGA 947-185

v190704jgv1

Amount: \$3,135.00

Component Description: KGA inv #947-137

Actual Cost invoices

Dec 18

UL20190212jgv1

Amount: \$975.00

Additional Field Engineering Service, 45 Days

Component Description: KGA inv #947-49

Site visit

UL20181204jgv2

Amount: \$5,400.00

Component Description: KGA inv #167-60

Site visit

UL20190308jgv1

Amount: \$5,400.00

Component Description: Additional Field

Engineering Services (On Site

Equipment

inventory & facilities survey) - Also see Attached "KGA

Quote"

Amount: \$5,400.00

Component Description: KGA inv #947-38

GatesAir

manufacturer visit UL20181211jgv2

Amount: \$1,800.00

Component Description: KGA inv #947-69

Field Eng Services UL20190212jgv1

Amount: \$3,800.00

Component Description: Inv: WSLS R&S

manufacturer visit UL20180316

Amount: \$1,800.00

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description: Amount:	Inv 947-71 WSLS FAA 7460 UL20180531jgv1 \$550.00
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	KGA 947-209 v191223jgv1 \$625.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application

Component Description: Expanded Facilities

- Prepare

engineering section of Form 301 FCC First Priority Filing

Window CP Application to compensate for IX in excess of 1%. Reimbursable

pursuant to DA 17-

106.

Amount: \$3,000.00

Component Description: Engineering Portion

of 1% Expansion CP application for Initial 90-Day Filing Window - Also see

"KGA Quote".

Amount: \$3,000.00

Perform engineering study for new channel **Component Description:** 1% Expansion assignment and antenna **Engineering Studies** development and Coordination for Initial 90-CP application - Also see "KGA Quote". \$7,000.00 Amount: **Component Description: Expanded Facilities** - Performed engineering studies for increased coverage and antenna development in 1st **Priority Filing** Window to compensate for IX in excess of 1%. Reimbursable pursuant to DA 17-106. Amount: \$7,000.00 Address transition timing Information not provided. and coordination issues w/ other stations and wireless Prepare and or review reimbursement form **Component Description:** KGA inv #947-158 Actual Cost prep & submit by JG Feb 2019 UL20190308jgv1 Amount: \$625.00 **Component Description:** KGA 947-203 v191015jgv1 Amount: \$3,265.00

Component Description: KGA 947-220

v191223jgv1

Amount: \$3,005.00

Component Description: KGA 947-245

v200202jgv1

Amount: \$1,350.00

Component Description: KGA 947-172

v190704jgv1

Amount: \$1,620.00

Component Description: KGA 947-233

v200124jgv2

Amount: \$2,990.00

Component Description: KGA 947-176

v190704jgv1 \$1,475.00

Amount: \$1,475.00

Component Description: KGA 947-197

Amount:

Amount:

Amount:

Amount:

v191015jgv1 \$1,665.00

Component Description: KGA 947-167

v190704jgv1 \$1,412.50

Component Description: Covington inv

#60775905 Various

legal

UL20181120jgv3

\$1,197.90

Component Description: KGA 947-232

v191206jgv1 \$2,415.00 **Component Description:** Prepared FCC 399

reimbursement form (Initial Filing) - Also see attached "KGA

Quote"

Amount: \$2,500.00

Component Description: KGA 947-208

v191015jgv1

Amount: \$610.00

Component Description: Inv: WSLS Various

legal UL20180329 rev'd 20180329jg

Amount: \$1,197.90

Component Description: Inv: WSLS

Reimburse review

etc UL20180305

Amount: \$513.00

Component Description: KGA inv #947-138

Actual Cost prep & submit by JG Jan

2019

UL20190308jgv1

Amount: \$3,325.00

Component Description: Covington inv

#60781604 Various

legal

UL20181127jgv2

Amount: \$1,070.00

Project management of the transition

Component Description: Inv: WSLS 2017Q3

387 UL20180302

Amount: \$300.00

Component Description: Inv 60768465

WSLS Various legal

UL20180514 jgv1

Amount: \$1,559.25

Component Description: Inv 947-81 WSLS

2018Q2 387 UL20180713jgv1

Amount: \$300.00

Component Description: KGA 947-193

Amount:

Amount:

Amount:

Amount:

v190718jgv1 \$300.00

Component Description: KGA 947-211

v191223jgv1 \$300.00

Component Description: KGA 947-210

v191223jgv1 \$300.00

Component Description: KGA 947-163

v190704jgv1 \$300.00

Component Description: KGA inv #947-109

Form 387 2018 Q3 UL20180720jgv1

.

Amount: \$300.00

Component Description: Project

Management - Also see attached "KGA Quote" Hours: 23-1 /3 Rate: \$150/hr Time Period: 8/1/17

- 8/31/17

Amount: \$3,500.00

Component Description: Inv: WSLS 2017Q4

387 UL20180302

Amount: \$300.00

Component Description: Inv 947-65 WSLS

Proj Mgt 2017 Aug -

Dec

UL20180625jgv2

Amount: \$20,190.00

Component Description: Inv 947-57 WSLS

2018Q1 387 UL20180622jgv1

Amount: \$300.00

Component Description: KGA inv #947-81

Form 387 2018 Q2 UL20180720jgv1

Amount: \$300.00

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application

Information not provided.

Attorney Fees - Prepare and File request for Special Temporary Authorization Information not provided.

ASR modification (prepare FCC Form 854)

Information not provided.

Comprehensive coverage verification via field study, if needed

Component Description: Partial Completion

of Comprehensive

coverage

verification via field study - see "KGA Quote" for fixed

price fee.

Amount: \$38,200.00

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 Co
Other Expenses	\$287,141.20	\$286,536.20		\$136,613.14	
Site fence modifications	\$6,334.00	\$6,334.00	See attached / uploaded PDF file titled "Powers Fence 5347 v200203jgv1. pdf"	\$6,334.00	N/A
Tax	\$2,777.20	\$2,777.20	Tax	\$2,777.20	N/A
Heavy equipment rentals	\$5,440.00	\$5,440.00	N/A	\$5,440.00	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	\$1,685.00	N/A
Develop and air announcement of upcoming channel change	\$100,000.00	\$100,000.00	It is expected that the station will spend at least \$100,000 developing and airing the required announcements.	N/A	N/A
Equipment Storage	\$10,000.00	\$10,000.00	N/A	\$6,396.26	N/A
Equipment Delivery and Handling Charges	\$50,000.00	\$50,000.00	N/A	\$22,830.68	N/A

			N/A		N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,750.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	A minor change of CP application may be required after structural analysis results are received.	N/A	N/A
Non-zoning permits	\$10,000.00	\$10,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	A license application may be required after structural analysis results are received which would require a CP mod application and then the license application.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	An STA will be required for interim operation while the main facility is being builtout.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$87,400.00	\$87,400.00	See attached Rohde Schwarz USA Quote & Invoice 9500092053 plus Rohde and Schwarz Quote No. 188820.0 (\$52,000 + 6,810 + \$7,270 + \$21,320)	\$87,400.00	N/A

Total for all	\$6,098,361.09	\$3,367,978.35	N/A	\$2,571,912.22	N/A
systems					

Components

Actual Information Description	File Name	
Site fence modifications	Component Description: Amount:	Powers Fence 5347 v200420pmv2 \$6,334.00
Тах	Component Description: Amount:	R&S 9500102206 v190625jgv1 \$2,777.20
Heavy equipment rentals	Component Description: Amount:	R&S 9500102206 v190625jgv1 \$5,440.00
MVPD Notification of Channel Change	Component Description: Amount:	KGA 947-168 v190704jgv1 \$1,685.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Component Description: Amount:	Die 650019 v191114pmv1 \$6,205.00
	Component Description: Amount:	PODS Z130000008776 v190916pmv1 \$191.26

Component Description: Die 341010 v190905pmv2 Amount: \$19,286.18			
Component Description: Die 341010 v190905pmv2 Amount: \$19,286.18	Equipment Delivery and		
Amount: \$19,286.18	Handling Charges	Component Description:	Die 341010
Component Description: Die 201015 v190730pmv1			v190905pmv2
Amount: \$102.00 \$102.0		Amount:	\$19,286.18
Amount: \$102.00 \$102.0			
Amount: \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$102.00 \$100.0		Component Description:	Die 201015
Component Description: Die 650019 v191114pmv1 Amount: \$3,442.50			v190730pmv1
Amount: \$3,442.50		Amount:	\$102.00
Amount: \$3,442.50			
Amount: \$3,442.50		Component Description:	Die 650019
Component Description: Die 341010 v190731pmv1			v191114pmv1
Amount: Sigma Vigor31pmv1 \$19,286.18		Amount:	
Amount: Sigma Vigor31pmv1 \$19,286.18			
Disposal Costs (for equipment and other waste, net of any salvage value)		Component Description:	Die 341010
Disposal Costs (for equipment and other waste, net of any salvage value) Component Description: Component Description: R&S 9500102206 v190625jgv1 Amount: Component Description: R&S 9500102206 v190625jgv1 Amount: \$7,270.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$21,320.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1			v190731pmv1
Component Description: R&S 9500102206 v190625jgv1		Amount:	\$19,286.18
Component Description: R&S 9500102206 v190625jgv1	Disposal Costs (for		
waste, net of any salvage value) v190625jgv1 Amount: \$6,810.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$7,270.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1	equipment and other	Component Description:	R&S 9500102206
Amount: \$6,810.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$7,270.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1	, ,		
Amount: \$7,270.00 Component Description: R&S 9500102206 v190625jgv1 Amount: \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1	value)	Amount:	· -
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Component Description: R&S 9500102206 v190625jgv1 Amount: \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1			v190625jgv1
Amount: v190625jgv1 \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1		Amount:	\$7,270.00
Amount: v190625jgv1 \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1			
Amount: \$21,320.00 Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1		Component Description:	
Component Description: R&S inv #9500092053 Decommissioning Sigma UL20190418jgv1			, -
#9500092053 Decommissioning Sigma UL20190418jgv1		Amount:	\$21,320.00
#9500092053 Decommissioning Sigma UL20190418jgv1		Commonant Bassariation	Dec:
Decommissioning Sigma UL20190418jgv1		Component Description:	
Sigma UL20190418jgv1			
UL20190418jgv1			_
			=
		Amount:	\$52,000.00

FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
Non-zoning permits	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification		
Troundation.	Component Description:	RF Notifications
		1202 v191224jgv1
	Amount:	\$3,750.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$6,098,361.09	\$3,367,978.35	\$2,571,912.22

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

Section Question Response

Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

04/22/2020

Section Question Response

Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

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

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

04/22/2020

Attachments