

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

			-		
Facility	57840	Service: DTV	Call	WSLS-TV	Channel: 34 (UHF)
ID:			Sign:		
File 0000027856					
Number:					
FRN: 00 2	25636598	Date	02/07		
		Submitted:	/2019		

Applicant Name, Type, and Contact Information

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 Ontact Name and Information

Contact 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	Add Transmitter Information					
ransmitter	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			

Add Transmitter Information

Auxiliary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Auxiliary (Backup)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	No			
		Manufacturer				
		Model	TBD			
		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	Other Transmitter Costs					
Transmitter	Section	Question	Response			
	Electrical Service	Service Entrance (3 phases 800A 208V)	No			
		Switchgear (industrial 800 amp)	Yes			
		Transformer (480V)	Yes			
		Power	150 kVA			
		Rigid Conduit and Wiring	Yes			
			,			

	Size	3 inches
	Length	100.0 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

Auxiliary Other Transmitter Cost Not Listed

Transmitter Information not provided.

Primary	Existing 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			
		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			

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?	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 re- tuned to the assigned channel. Therefore, a new Rohde & Schwarz THU9EVO- 24 is being purchased.			

Primary Other Transmitter Costs

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

	T ((400))	
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	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?	Yes
	Туре	Heating and Cooling
	Size	10 tons
	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	Other Transmitter Cost Not Listed		
Transmitter	Name	Description	
	Transmitter Remote Control	Modification of the transmitter Remote Control system is required for it to interface with the new transmitters.	
	Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line	

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Auxiliary	Add Antenna Information			
Antenna	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

Antenna	Section	Question	Response
	New Antenna Description	Use	Auxiliary (Backup)
		Description of Use	Auxiliary
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	Yes
		Will antenna be located on or in close proximity to an antenna farm?	Yes
	New Antenna Manufacturer and Types	Class	Full Power
		Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		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)	65.0 kW
		Manufacturer	
		Model	TBD

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

Auxiliary Antenna

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

Auxiliary
AntennaOther Antenna Cost Not ListedInformation not provided.

Primary	Existing Antenna Information			
Antenna	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

Antenna	Section	Question	Response
	New Antenna	Use	Primary (Main
	Description	Description of Use	N/A
		Change Type	Purchase Nev
		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 Type	Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	930.0 kW
		Manufacturer	
		Model	TFU-30DSC /VP-R C170

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 e- pol which is considered an upgrade with a 15% delta in costs according to manufacturer However, the 399 is budgeted for h-pol.

Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	
		Number of channels supported	N/A
Elbow Complex		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?	Yes
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

Primary
Antenna Other Antenna Cost Not Listed Name Description Mounting Support Pole Required for top mounting main antenna
(first priority station)

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

Add Transmission Line Transmission Line

ransmissio	n Line 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 Manufact Type	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 Other Transmission Line Expenses Not Listed			
Transmissio	n Line	Description	
	Sweep Tests	Sweep test to verify performance on	

assigned channel.

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	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	

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	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.	

Primary Other Transmission Line Expenses Not Listed

Primary Other Transmission Transmission

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

mary	Existing	Tower

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	
		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-	
1	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 fee
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Graham Media Group, Virginia, LLC
Date Constructed	01/01/1980

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:	Serious Reinforcements needed

Primary Tower Rigging Costs

Tower

Tower

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

Primary Other Tower Expenses Not Listed

Tower Information not provided.

Outside	Section	Question	Response
Professional	I Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	600
		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

		1
	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 Services	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	Yes
	Environmental Assessment	Yes
	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	Yes
	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 trained in such services.

Outside Other Professional Services Expenses Not Listed Professional Services Costs

al 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	Section	Question	Response
Expenses	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 Not Listed

Expenses Information not provided.

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
Primary Transmitter THU9EVO-24	\$2,866,400.00	\$2,069,200.00		\$979,958.25	
Additional Interior RF System	\$140,000.00	\$140,000.00	N/A	\$750.00	N/A
Transmitter Remote Control	\$19,950.00	\$19,950.00	N/A	\$19,950.00	N/A
Other Building Addition Size: 700.0	\$50,000.00	\$50,000.00	Need pad for new heat exchangers and beam supplies and also need ice shield.	\$17,307.32	See attached Osborn Engineering Quote and summary page for additional details.
10 Ton system	\$60,500.00	\$57,500.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A

UHF - Liquid	\$1,473,000.00	\$701,250.00	\$701,250 is the	\$701,250.00	N/A
Cooled			difference		
Solid State			between		
Transmitter			\$233,750		
35 - 50 kW			invoice		
			9500076219		
			(which was		
			Forwarded		
			For		
			Payment)		
			for the		
			originally		
			specified		
			IOT		
			transmitter		
			and the		
			remaining		
			balance due		
			for the new		
			THU9EVO-		
			24		
			transmitter.		
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Other	\$100,000.00	\$100,000.00	N/A	\$6,950.93	See
Electrical					attached
Service:					Osborn
Additional					Engineerir
electrical					Quote and
service					summary
needed for					page for
					additiona
the new transmitter					details.
transmitter and RF					details.
transmitter					details.

Two IOT system (50 kW)	\$954,000.00	\$935,000.00	***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 TBD	\$194,950.00	\$185,500.00		\$80,565.01	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$120,000.00	N/A	\$80,565.01	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Sub-total	\$3,061,350.00	\$2,254,700.00	N/A	\$1,060,523.26	N/A
Total for all	\$6,031,261.00	\$4,844,865.90	N/A	\$1,880,252.21	N/A

Components

Actual Information Description	File Name	
Additional Interior RF System	Component Description: Amount:	Developed a Solution for Transmitter & Mask Filter on New Channel - Also See attached "KGA Quote" \$750.00
Transmitter Remote Control	Component Description: Amount:	Bohn inv #200249 Remote Control UL20190118jgv1 \$19,950.00

Other Building Addition Size: 700.0	Component Description:	Inv 1034840 WSLS Professional Services UL20180511jgv1
	Amount:	\$494.50
	Component Description:	Osborn inv #29392 In house printing UL20181101jgv1
	Amount:	\$246.00
	Component Description:	Osborn inv #28226 Prof Srvs 1-27-18 to 2- 23-18 UL20181101jgv1
	Amount:	\$11,191.82
	Component Description:	Osborn inv #25404R Facility Building Survey and Condition Assessment UL20190205jgv4
	Amount:	\$5,375.00
10 Ton system	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase /480v - 150 KVA	Information not provided.	

UHF - Liquid Cooled		
Solid State Transmitter 35 - 50 kW	Component Description:	R&S inv #9500092026 THU9EVO-24 transmitter 25 pct final pmt UL20190111jgv1 applied to correct THU9EVO-24
	Amount:	component on 190124 \$233,750.00
	Component Description:	R&S inv
		#9500092024 THU9EVO-24
		transmitter 50 pct pmt 2 UL20190111jgv1 applied to correct
		THU9EVO-24 component on 190124
	Amount:	\$467,500.00
Switchgear - industrial 800 amp	Information not provided.	

Amount:	through 7-29-18 UL20180726jgv1 \$60,252.10
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: Amount: Component Description:

Two IOT system (50 kW)Component Description:R&S inv #9500092026 THU9EVO-24 transmitter 25 pct final pmt UL20190111jgv1 Amount:Amount:\$233,750.00Component Description:R&S inv #9500092024 THU9EVO-24 transmitter 50 pct pmt 2 UL20190111jgv1 Amount:Amount:\$467,500.00UHF - Air Cooled Solid State Transmitter 1 - 2.5 kWComponent Description:UHF - Air Cooled Solid State Transmitter 1 - 2.5 kWComponent Description:R&S inv #9500092025 TMU9-3 a Aux TX 25 pct final pmt UL20190117jgv1 Amount:Component Description:R&S inv #9500092025 TMU9-3 a Aux TX 25 pct final pmt UL20190117jgv1 Amount:Component Description:Inv: WSLS TMU9-3 a Aux TX 25 pct final pmt UL201901313 a Xux TX 25 pct final pmt UL20180313 Amount:Component Description:Inv: WSLS TMU9-3 a Xux TX 25 pct final pmt UL20180313 S20,141.25			
#9500092026 THU9EVO-24 transmitter 25 pct final pmt UL20190111jgv1Amount:\$233,750.00Component Description:R&S inv #9500092024 THU9EVO-24 transmitter 50 pct pmt 2 UL20190111jgv1Amount:\$467,500.00Component Description:Inv: WSLS THU9EVO 24 transmitter 25% down pmt UL20180312 \$233,750.00UHF - Air Cooled Solid State Transmitter 1 - 2.5 kWComponent Description:Inv: WSLS THU9EVO 24 transmitter 25% down pmt UL20180312 \$400092025 TMU9-3 3 Aux TX 25 pct final pmt UL20190117jgv1 Amount:UHF - Air Cooled Solid State Transmitter 1 - 2.5 kWComponent Description:Inv: WSLS THU9-3 aux Transmitter 25% down pmt UL20180313 3 Aux TX 25 pct final pmt UL20180313 Amount:Component Description:Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 \$20,141.25	Two IOT system (50 kW)		
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Pmt UL20190111jgv1 \$233,750.00Amount:\$233,750.00Component Description:R&S inv #9500092024 THU9EVO-24 transmitter 50 pct pmt 2 UL20190111jgv1 Amount:Amount:\$467,500.00Component Description:Inv: WSLS THU9EVO 24 transmitter 25% down pmt UL20180312 Amount:UHF - Air Cooled Solid State Transmitter 1 - 2.5 kWComponent Description:UHF - Air Cooled Solid State Transmitter 1 - 2.5 kWComponent Description:Inv: WSLS THU9-3 Aux TX 25 pct final pmt UL20190117/jgv1 Amount:Component Description:R&S inv #9500092025 TMU9-3 Aux TX 25 pct final pmt UL20190117/jgv1 Amount:Component Description:Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 Aux TA 25 pct final pmt UL20180313 Amount:Amount:\$20,141.25			THU9EVO-24
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UHF - Air Cooled Solid State Transmitter 1 - 2.5 KWComponent Description:R&S inv #9500092024 THU9EVO-24 transmitter 50 pot pmt 2 UL20190111jgv1 Amount:UHF - Air Cooled Solid State Transmitter 1 - 2.5 KWComponent Description:Inv: WSLS THU9EVO 24 transmitter 25% down pmt UL20180312 \$233,750.00UHF - Air Cooled Solid State Transmitter 1 - 2.5 KWComponent Description:R&S inv #950092025 TMU9-3 3 Aux TX 25 pct final pmt UL20190117jgv1 Amount:Component Description:Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 S20,141.25			pmt UL20190111jgv1
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UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW Component Description: R&S inv #9500092025 TMU9- 3 Aux TX 25 pct final pmt UL20190117jgv1 Amount: \$20,141.25 Component Description: Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 \$20,141.25			
State Transmitter 1 - 2.5 kWComponent Description:R&S inv #9500092025 TMU9- 3 Aux TX 25 pct final pmt UL20190117jgv1 \$20,141.25Amount:\$20,141.25Component Description:Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 \$20,141.25Amount:\$20,141.25		Amount:	\$233,750.00
State Transmitter 1 - 2.5 kWComponent Description:R&S inv #9500092025 TMU9- 3 Aux TX 25 pct final 	UHF - Air Cooled Solid		
 kW #9500092025 TMU9- 3 Aux TX 25 pct final pmt UL20190117jgv1 Amount: \$20,141.25 Component Description: Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 Amount: \$20,141.25 	State Transmitter 1 - 2.5		
Amount:3 Aux TX 25 pct final pmt UL20190117jgv1 \$20,141.25Component Description:Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 \$20,141.25Amount:\$20,141.25	kW	Component Description:	
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Component Description: Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313 Amount: \$20,141.25		Amount	
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Amount: aux transmitter 25% down pmt UL20180313 \$20,141.25			
down pmt UL20180313 Amount: \$20,141.25		Component Description:	Inv: WSLS TMU9-3
UL20180313 Amount: \$20,141.25			
Amount: \$20,141.25			•
Component Description: R&S inv		Amount:	\$20,141.25
Component Description: R&S inv			
		Component Description:	R&S inv
#9500092027 TMU9-			#9500092027 TMU9-
3 Aux TX 50 pct DP			3 Aux TX 50 pct DP
upon delivery			upon delivery
UL20190117jgv1			UL20190117jgv1
Amount: \$40,282.51		Amount:	\$40,282.51

Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase /480v - 150 KVA	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Antennas

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-30DSC /VP-R C170	\$491,966.00	\$443,549.00		\$344,319.30	
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
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$21,750.00	N/A	\$9,787.50	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically	\$289,500.00	\$240,000.00	Recognizing that e-pol is an upgrade, the station is budgeting for "h-pol only" which Dielectric said	\$220,592.70	N/A
or circularly polarized			is a 15% delta. Therefore, the		
			estimated cost for an h-		
			pol antenna is only \$240,000		
			instead of the estimated		
			cost of \$275,000 for		
			an e-pol antenna (15%).		
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
Elbow complex, single	\$9,570.00	\$12,383.00	Elbow complex is actually 6-1	\$11,144.70	N/A
channel, at			/8". See		
antenna			attached Dielectric		
input, per 4 1/16.			quote.		
feedline (if needed)			1		
Auxiliary Antenna TBD	\$213,940.00	\$147,216.00		\$42,969.00	

Pattern scatter analysis for side mount high/med power antennas (if not included in antennas (if not included in antennas (if not included in antennas base cost)\$\$2,150.00\$\$2,000.00N/A\$\$,107.00N/ASide mount base cost)\$23,150.00\$\$2,000.00N/A\$\$,5107.00N/AUHF - Lower Power Side Mount, One station antenna - medium power (50- 20 KW), borizontally polarized\$89,400.00\$\$5,000.00N/A\$\$6,346.00N/ASweep test of existing antenna\$6,730.00\$\$6,400.00N/AN/AN/AN/A						
brackets for high power antennas (if not included in antenna base cost) UHF - \$89,400.00 \$85,000.00 N/A \$6,346.00 N/A Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized Sweep test \$6,730.00 \$6,400.00 N/A N/A N/A	scatter analysis for side mount high/med power antennas (if not included in antenna	\$5,260.00	\$5,000.00	N/A	\$2,700.00	N/A
Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized Sweep test \$6,730.00 \$6,400.00 N/A N/A N/A	brackets for high power antennas (if not included in antenna	\$23,150.00	\$22,000.00	N/A	\$5,107.00	N/A
of existing	Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally	\$89,400.00	\$85,000.00	N/A	\$6,346.00	N/A
	of existing	\$6,730.00	\$6,400.00	N/A	N/A	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
Sub-total	\$705,906.00	\$590,765.00	N/A	\$387,288.30	N/A
Total for all systems	\$6,031,261.00	\$4,844,865.90	N/A	\$1,880,252.21	N/A

Actual Information Description	File Name	
Mounting Support Pole	Component Description:	Inv MAN00430 WSLS Support pole 45 perc pmt 2
	Amount:	UL20180713jgv1 \$46,800.00
	Component Description: Amount:	WSLS Die inv #MAN00607 Mt pole mod 45 pct pmt 2 UL20181105jgv2 \$26,557.20
	Component Description:	WSLS Die inv #MAN00606 Mt pole mod 45 pct pmt 1 UL20181105jgv2
	Amount:	\$26,557.20

Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:	Inv MAN00430 WSLS Side mt brckts 45 perc pmt
	Amount:	2 UL20180713jgv1 \$9,787.50
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description:	Inv MAN00325 WSLS TFU-30DSC VP-R C170 etc Main Antenna
	Amount:	UL20180423jg \$140,030.10
	Component Description:	Inv MAN00430 WSLS Main ant 45 perc pmt 2 UL20180713jgv1
	Amount:	\$80,562.60
Sweep test of existing antenna		
	Component Description:	Inv MAN00430 WSLS Sweep tests 45 perc pmt 2 UL20180713jgv1
	Amount:	\$2,880.00
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:	Inv MAN00430 WSLS Elbox comp 45 perc pmt 2 UL20180713jgv1
	Amount:	\$5,572.35

side mount high/med power antennas (if not included in antenna base	Component Description:	Die inv #274004 TLP-24 aux ant scatter analysis p
cost)	Amount:	2 UL20190125jgv \$2,700.00
Side mount brackets for high power antennas (if not included in antenna base	Component Description:	Die inv #274004
cost)		TLP-24 aux ant brackets pmt 2
	Amount:	UL20190125jgv1 \$5,107.00
UHF - Lower Power Side Mount, One station		
antenna - medium power	Component Description:	Die inv #274004 TLP-24 aux ant te
(50-200 kW), horizontally polarized		transition pmt 2 UL20190125jgv1
	Amount:	\$788.00
	Component Description:	Die inv #274004 TLP-24 aux ant p
	Amount:	2 UL20190125jgv \$5,558.00
Sweep test of existing antenna	Information not provided.	
UHF - Lower Power Side Mount, One station		
antenna - medium power	Component Description:	Inv: WSLS TLP-2 (C)VP aux antenr
(50-200 kW), horizontally polarized		50 percent down
	Amount:	pmt UL20180316 \$28,816.00

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
Primary Transmission Line	\$54,540.00	\$51,840.00		\$49,459.50	
Rigid Transmission Line - copper, 6 1/8"	\$54,540.00	\$51,840.00	N/A	\$49,459.50	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	\$58,240.00	N/A	\$49,459.50	N/A
Total for all systems	\$6,031,261.00	\$4,844,865.90	N/A	\$1,880,252.21	N/A

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 6 1/8"	Component Description:	Die inv #202001
		Nitrogen generator
	Amount:	UL20181102jgv1 \$8,172.44
	Amount.	ψ0, 172. 44
	Component Description:	Inv MAN00325
		WSLS
		Transmission Line
		UL20180423jg
	Amount:	\$20,643.53
	Component Description:	Inv MAN00430
		WSLS Trans line 45
		perc pmt 2
		UL20180713jgv1
	Amount:	\$20,643.53
Sweep Tests	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

Description Primary	Predetermined Cost Estimate \$1,485,600.00	Estimated Cost \$1,127,970.00	Estimated Cost Justification	Actual Cost \$231,325.56	Actual Cost Justificatior
Tower TOWER	¥1,400,000.00	ψ1,121,010.00		<i>\</i>	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	\$105,688.50	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$27,970.00	The tower studies and modifications have turned out to be more complicated than originally anticipated (20180815jgv1)	\$27,970.00	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	\$700,000.00	N/A	\$97,667.06	N/A
Sub-total	\$1,485,600.00	\$1,127,970.00	N/A	\$231,325.56	N/A
Total for all systems	\$6,031,261.00	\$4,844,865.90	N/A	\$1,880,252.21	N/A

File Name	
Component Description: Amount:	ERI inv #WSLS-001- 1 Ant and line install 50 pct pmt 1 UL20181127jgv2 \$105,688.50
Component Description:	WSLS Malouf inv #1805084V4 Structural Analysis
Amount:	UL20180816jg v1 \$7,000.00
Component Description:	Coordinate Tower mapping & analyses - Also See Attached "KGA Quote"
Amount:	\$750.00
Component Description: Amount:	Inv: WSLS Structural Analysis UL20180305 \$4,500.00
Component Description:	Coordinate Tower Modifications - Also
Amount:	See Attached "KGA Quote" \$1,250.00
Component Description:	Develop an Upgrade or Replacement solution for Tower - Also See Attached "KGA Quote" \$750.00
	Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount: Amount: Amount: Amount: Amount: Amount: Amount: Amount:

	Component Description:	WSLS Malouf inv #1805084V3 Structural Applysi
		Structural Analysis UL20180815jg v1
	Amount:	\$3,500.00
		<i>40,000.00</i>
	Component Description:	Inv: WSLS Tower
		Data Collection
	A	UL20180402
	Amount:	\$2,720.00
	Component Description:	Inv 1805084V1
		WSLS Mod Desig
		and Structural
		Analysis
		UL20180424jg v1
	Amount:	\$7,500.00
Serious tower reinforcement/modifications		
	Component Description:	ERI inv #WSLS-T
		003 Tower mods
		pct pay 1
	Amount:	UL20181102jgv1 \$54,360.00
	Amount.	φ04,300.00
	Component Description:	ERI inv #WSLS-0
		Tower work 50 pe
		pmt 1
	Amount:	UL20181101jgv1 \$20,642,50
	Amount:	\$20,642.50
	Component Description:	WSLS ERI inv
		#WSLS-002 Tow
		work 50 perc dp
		UL20180731jgv2
	Amount:	\$22,664.56

Outside Professional Services

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Outside Professional Services	\$522,275.00	\$618,605.90		\$151,655.59	
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
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Other Legal Services	\$1,000.00	\$1,000.00	Other Legal Services related to the DTV Repack	\$68.40	N/A

Other	\$97,500.00	\$97,500.00	Fewer	\$75,640.00	N/A
Engineering			Project		
Services			Management "PM" tasks		
			are required		
			& Other		
			Engineering		
			Services		
			"OES" are		
			required,		
			therefore the		
			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.		
Additional Field	\$90,000.00	\$90,000.00	N/A	\$14,400.00	N/A
Engineering					
Service, 45					
Days					
RF Exposure	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Measurements					
Comprehensive	\$84,200.00	\$80,000.00	N/A	\$0.00	N/A
coverage					
verification via					
field study, if					
needed					
FAA	\$2,105.00	\$2,000.00	N/A	\$550.00	N/A
consultant,					
including cost					
of preparing					
FAA Form					
7460 (Notice of					
Proposed					
Construction),					
if needed for					
height increase					

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	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
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	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	
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	

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	\$5,505.90	See 3 invoices applied to this component plus the following 4th invoice which will be applied shortly: Covington Burling 60781604 \$1,295.00	\$5,280.90	Legal assistance beyond that originally anticipate has been required

Project management of the transition	\$94,800.00	\$187,500.00	N/A	\$26,749.25	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 reimbursed.	\$6,000.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Sub-total	\$522,275.00	\$618,605.90	N/A	\$151,655.59	N/A
Total for all systems	\$6,031,261.00	\$4,844,865.90	N/A	\$1,880,252.21	N/A

Actual Information	
Description	File Name

Architectural and Engineering	Component Description:	Osborn inv #29014 Prof Srvs thru 4-27- 18 UL20181105jgv1
	Amount:	\$8,967.04
ASR modification (prepare FCC Form 854)	Information not provided.	
Other Legal Services		
	Component Description:	WSLS Covington inv #60812707 Review and file 2018 Q2 Progress Report UL20181019jgv1
	Amount:	\$68.40
Other Engineering Services		
	Component Description:	Inv 947-75 WSLS Actual Cost UL20180705jgv1
	Amount:	\$1,687.50
	Component Description:	KGA inv #947-113 OES Jul18 - Oct18
	Amount:	UL20180720jgv1 \$27,400.00
	Component Description:	Inv 947-88 WSLS OES Jan18 - Jun18
	Amount:	UL20180720jgv1 \$44,325.00
	Component Description:	KGA inv #947-104 Actual Cost invs
	Amount:	180607 - 180905 UL20180720jgv1 \$2,227.50

Additional Field		
Engineering Service, 45 Days	Component Description:	KGA inv #947-38 GatesAir
		manufacturer visit
		UL20181211jgv2
	Amount:	\$1,800.00
	Component Description:	KGA inv #947-49
		Site visit
	A	UL20181204jgv2
	Amount:	\$5,400.00
	Component Description:	Additional Field
	I	Engineering
		Services (On Site
		Equipment
		inventory & facilities
		survey) - Also see
		Attached "KGA
	Amount:	Quote" \$5,400.00
	Amount.	\$ 5,400.00
	Component Description:	Inv: WSLS R&S
		manufacturer visit
		UL20180316
	Amount:	\$1,800.00
RF Exposure Measurements	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.
		price lee.
	Amount:	\$38,200.00

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
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
NEPA Section 106 environmental review, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	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.	

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description:	1% Expansion Engineering Studies and Coordination for Initial 90-CP application - Also see "KGA Quote".
	Amount:	\$7,000.00
	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. \$7,000.00
	Amount.	\$7,000.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

reimbursement form	Component Description:	Covington inv
	component Description.	#60775905 Various
		legal
		UL20181120jgv3
	Amount:	\$1,197.90
	Component Description:	Inv: WSLS Various
		legal UL20180329
		rev'd 20180329jg
	Amount:	\$1,197.90
	Component Description:	Covington inv
		#60781604 Various
		legal UL20181127jgv2
	Amount:	\$1,070.00
	Component Description:	Prepared FCC 399
		reimbursement form
		(Initial Filing) - Also see attached "KGA
		Quote"
	Amount:	\$2,500.00
	Component Description:	Inv: WSLS
		Reimburse review
		etc UL20180305
	Amount:	\$513.00
Project management of		
the transition	Component Description:	Inv 947-65 WSLS
		Proj Mgt 2017 Aug
		Dec UL20180625jgv2
	Amount:	\$20,190.00

Component Description: Amount:	Inv 947-81 WSLS 2018Q2 387 UL20180713jgv1 \$300.00
Component Description: Amount:	Inv: WSLS 2017Q4 387 UL20180302 \$300.00
Component Description: Amount:	KGA inv #947-81 Form 387 2018 Q2 UL20180720jgv1 \$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 \$3,500.00
Component Description: Amount:	KGA inv #947-109 Form 387 2018 Q3 UL20180720jgv1 \$300.00
Component Description: Amount:	Inv 947-57 WSLS 2018Q1 387 UL20180622jgv1 \$300.00
Component Description: Amount:	Inv 60768465 WSLS Various legal UL20180514 jgv1 \$1,559.25

	Component Description: Amount:	Inv: WSLS 2017Q3 387 UL20180302 \$300.00
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. \$3,000.00
	Component Description:	Engineering Portion of 1% Expansion CP application for Initial 90-Day Filing Window - Also see "KGA Quote". \$3,000.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	

Other Expenses

Cost Information

	Predetermined	Estimated	Estimated Cost		Actual Co
Description	Cost Estimate	Cost	Justification	Actual Cost	Justificat
Other Expenses	\$195,190.00	\$194,585.00		\$0.00	
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	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	N/A	N/A
Equipment Delivery and Handling Charges	\$50,000.00	\$50,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Non-zoning permits	\$10,000.00	\$10,000.00	N/A	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 built- out.	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 - 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
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Sub-total	\$195,190.00	\$194,585.00	N/A	\$0.00	N/A
Total for all systems	\$6,031,261.00	\$4,844,865.90	N/A	\$1,880,252.21	N/A

Information not provided.

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$6,031,261.00	\$4,844,865.90	\$1,880,252.21

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

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. 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).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	William T Godfrey , Jr Consulting Engineers 02/07/2019

Certification	Section	Question	Response
Gertinication	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).
- 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- ed applicant for the Authorization(s) fied above.	William T Godfrey , Jr Consulting Engineers 02/07/2019

Attachments

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