

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility	<b>57840</b>	Service:	<b>DTV</b>	Call	<b>WSLS-TV</b>	Channel:	<b>34 (UHF)</b>
ID:		Sign:					
File	<b>0000027856</b>						
Number:							
FRN:	<b>0025636598</b>	Date	<b>10/19</b>				
		Submitted:	<b>/2018</b>				

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAHAM MEDIA GROUP, VIRGINIA, LLC</b> 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 Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>William T Godfrey , Jr. .</b> <i>Consulting Engineers Kessler and Gehman Associates, Inc.</i>	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
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Diamond
	Year	2007
	Type	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	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 re- tuned 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)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes

	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Sigma
	Year	2007
	Type	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	DCX Paragon 2
	Transmitter Type	Inductive Output Tube
	IOT Power Type	Two
	Power capacity	50 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be re- tuned to the assigned channel. A new Comark Paragon MSDC IOT transmitter is the basis for a replacement as suggested by the FCC. See attachment.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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	Yes
	Description	Additional electrical service needed for the new transmitter and RF plumbing installation.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	10 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	700.0 square feet
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A



	Number of Days	N/A
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Primary  
Transmitter

Other Transmitter Cost Not Listed

Name	Description
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

**Auxiliary  
Antenna****Add Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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

## Auxiliary Antenna

### 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?	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
	Type	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.

## Auxiliary Antenna

### Other Antenna Costs

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

**Auxiliary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

## Primary Antenna

### Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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

## Primary Antenna

### New Antenna Costs

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

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel

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

## Primary Antenna

### Other Antenna Cost Not Listed

Name	Description
<b>Mounting Support Pole</b>	Required for top mounting main antenna (first priority station)

**Transmission Line**

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

**Auxiliary Transmission Line****Add Transmission 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 Line Manufacturer and Type	Manufacturer	ERI
	Type	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 Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Tests	Sweep test to verify performance on assigned channel.

**Primary**  
**Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	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**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	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 Transmission Line	Other Transmission Line Expenses Not Listed
Information not provided.	

**Tower  
Equipment  
And  
Rigging  
Costs**

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

**Primary  
Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	Terrain Constrained
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1024381
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	37° 12' 03.3" N-
	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?	Yes

**Primary Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	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.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	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
<b>RF Field Engineering Services</b>	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 or personnel trained in such services.

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
<b>Other Engineering Services</b>	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.
<b>Other Legal Services</b>	Other Legal Services related to the DTV Repack

## Other Expenses

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

<b>Other Expenses</b>	<b>Other Expenses Not Listed</b> Information not provided.
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## Cost Information

### Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter DCX Paragon 2	\$1,373,450.00	\$1,801,470.00		\$247,486.01	
Other -- Building Addition Size: 700.0	<i>\$50,000.00</i>	\$50,000.00	Need pad for new heat exchangers and beam supplies and also need ice shield.	\$5,869.50	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
Other Electrical Service: Additional electrical service needed for the new transmitter and RF plumbing installation.	<i>\$100,000.00</i>	\$100,000.00	N/A	\$7,116.51	See attached Osborn Engineering Quote and summary page for additional details.
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

Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Two IOT system (50 kW)	\$954,000.00	\$1,388,470.00	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
Additional Interior RF System	<b>\$140,000.00</b>	\$140,000.00	N/A	\$750.00	N/A
<b>Auxiliary Transmitter TBD</b>	<b>\$194,950.00</b>	<b>\$185,500.00</b>		<b>\$20,141.25</b>	
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
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$120,000.00	N/A	\$20,141.25	N/A
<b>Sub-total</b>	<b>\$1,568,400.00</b>	<b>\$1,986,970.00</b>	<b>N/A</b>	<b>\$267,627.26</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$4,719,961.00</b>	<b>\$4,755,780.00</b>	<b>N/A</b>	<b>\$835,977.33</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
Other -- Building Addition Size: 700.0	<b>Component Description:</b>
	Inv 1034840 WSLs Professional Services UL20180511jgv1
	<b>Amount:</b>
	\$494.50
	<b>Component Description:</b>
	Facility Building Survey and Condition Assessment for WSLS (See Osborn Engineering Quote)
	<b>Amount:</b>
	\$5,375.00
10 Ton system	Information not provided.

<p>Other Electrical Service: Additional electrical service needed for the new transmitter and RF plumbing installation.</p>	<table> <tr> <td data-bbox="694 100 1085 515"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 100 1428 515"> <p>Facility Electrical Survey and Condition Assessment for WSLS (See Osborn Engineering Quote)</p> <p>\$6,616.51</p> </td></tr> <tr> <td data-bbox="694 515 1085 817"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 515 1428 817"> <p>WSLS Osborn inv #29669 Prof Srvs through 7-29-18 UL20180726jgv1</p> <p>\$60,252.10</p> </td></tr> <tr> <td data-bbox="694 817 1085 1220"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 817 1428 1220"> <p>Developed a Solution for Electrical and HVAC on New Channel - Also See attached "KGA Quote"</p> <p>\$500.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Facility Electrical Survey and Condition Assessment for WSLS (See Osborn Engineering Quote)</p> <p>\$6,616.51</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>WSLS Osborn inv #29669 Prof Srvs through 7-29-18 UL20180726jgv1</p> <p>\$60,252.10</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Developed a Solution for Electrical and HVAC on New Channel - Also See attached "KGA Quote"</p> <p>\$500.00</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Facility Electrical Survey and Condition Assessment for WSLS (See Osborn Engineering Quote)</p> <p>\$6,616.51</p>						
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>WSLS Osborn inv #29669 Prof Srvs through 7-29-18 UL20180726jgv1</p> <p>\$60,252.10</p>						
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Developed a Solution for Electrical and HVAC on New Channel - Also See attached "KGA Quote"</p> <p>\$500.00</p>						
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>						
<p>Transformer 3 phase/480v - 150 KVA</p>	<p>Information not provided.</p>						
<p>Switchgear - industrial 800 amp</p>	<p>Information not provided.</p>						
<p>Two IOT system (50 kW)</p>	<table> <tr> <td data-bbox="694 1556 1085 1933"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1085 1556 1428 1933"> <p>Inv: WSLS THU9EVO-24 transmitter 25% down pmt UL20180312</p> <p>\$233,750.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Inv: WSLS THU9EVO-24 transmitter 25% down pmt UL20180312</p> <p>\$233,750.00</p>				
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Inv: WSLS THU9EVO-24 transmitter 25% down pmt UL20180312</p> <p>\$233,750.00</p>						

Additional Interior RF System	<p><b>Component Description:</b></p> <p>Developed a Solution for Transmitter &amp; Mask Filter on New Channel - Also See attached "KGA Quote"</p> <p><b>Amount:</b></p> <p>\$750.00</p>
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	<p><b>Component Description:</b></p> <p>Inv: WSLS TMU9-3 aux transmitter 25% down pmt UL20180313</p> <p><b>Amount:</b></p> <p>\$20,141.25</p>

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Antenna TFU-30DSC /VP-R C170</b>	<b>\$491,966.00</b>	<b>\$443,549.00</b>		<b>\$344,319.30</b>	
Mounting Support Pole	<i>\$163,016.00</i>	\$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 or circularly polarized	\$289,500.00	\$240,000.00	Recognizing that e-pol is an upgrade, the station is budgeting for "h-pol only" which Dielectric said 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%).	\$220,592.70	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$12,383.00	Elbow complex is actually 6-1/8". See attached Dielectric quote.	\$11,144.70	N/A
<b>Auxiliary Antenna TBD</b>	<b>\$213,940.00</b>	<b>\$147,216.00</b>		<b>\$28,816.00</b>	

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$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	\$85,000.00	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
<b>Sub-total</b>	\$705,906.00	\$590,765.00	N/A	\$373,135.30	N/A
<b>Total for all systems</b>	\$4,719,961.00	\$4,755,780.00	N/A	\$835,977.33	N/A

## Components

Actual Information	
Description	File Name
Mounting Support Pole	<div> <div>Component Description:</div> <div>WSLS Die inv #MAN00606 Mt pole mod 45 pct pmt 1 UL20180815jgv1</div> </div> <div> <div>Amount:</div> <div>\$26,557.20</div> </div> <div> <div>Component Description:</div> <div>Inv MAN00430 WSLS Support pole 45 perc pmt 2 UL20180713jgv1</div> </div> <div> <div>Amount:</div> <div>\$46,800.00</div> </div> <div> <div>Component Description:</div> <div>WSLS Die inv #MAN00607 Mt pole mod 45 pct pmt 2 UL20180815jgv1</div> </div> <div> <div>Amount:</div> <div>\$26,557.20</div> </div>

Side mount brackets for high power antennas (if not included in antenna base cost)	<p><b>Component Description:</b> Inv MAN00430 WSLS Side mt brckts 45 perc pmt 2 UL20180713jgv1</p> <p><b>Amount:</b> \$9,787.50</p>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p><b>Component Description:</b> Inv MAN00430 WSLS Main ant 45 perc pmt 2 UL20180713jgv1</p> <p><b>Amount:</b> \$80,562.60</p> <p><b>Component Description:</b> Inv MAN00325 WSLS TFU-30DSC VP-R C170 etc Main Antenna UL20180423jg</p> <p><b>Amount:</b> \$140,030.10</p>
Sweep test of existing antenna	<p><b>Component Description:</b> Inv MAN00430 WSLS Sweep tests 45 perc pmt 2 UL20180713jgv1</p> <p><b>Amount:</b> \$2,880.00</p>
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	<p><b>Component Description:</b> Inv MAN00325 WSLS Elbow Complex UL20180423jg</p> <p><b>Amount:</b> \$5,572.35</p> <p><b>Component Description:</b> Inv MAN00430 WSLS Elbox comp 45 perc pmt 2 UL20180713jgv1</p> <p><b>Amount:</b> \$5,572.35</p>

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<div> <div> <b>Component Description:</b> </div> <div> Inv: WSLS TLP-24H (C)VP aux antenna 50 percent down pmt UL20180316 </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$28,816.00 </div> </div>

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	\$51,840.00		\$41,287.06	
Rigid Transmission Line - copper, 6 1/8"	\$54,540.00	\$51,840.00	N/A	\$41,287.06	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	\$41,287.06	N/A
Total for all systems	\$4,719,961.00	\$4,755,780.00	N/A	\$835,977.33	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	<div><div>Component Description:</div><div>Inv MAN00430 WSLS Trans line 45 perc pmt 2 UL20180713jgv1</div><div>Amount:</div><div>\$20,643.53</div></div> <div><div>Component Description:</div><div>Inv MAN00325 WSLS Transmission Line UL20180423jg</div><div>Amount:</div><div>\$20,643.53</div></div>

Sweep Tests	Information not provided.
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Cost  
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$1,735,600.00	\$1,377,970.00		\$50,634.56	
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	\$22,664.56	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Tower Helicopter Lift	<i>\$250,000.00</i>	\$250,000.00	N/A	N/A	N/A
Sub-total	\$1,735,600.00	\$1,377,970.00	N/A	\$50,634.56	N/A

<b>Total for all systems</b>	\$4,719,961.00	\$4,755,780.00	N/A	\$835,977.33	N/A
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## Components

Actual Information	
Description	File Name
Structural engineering tower load study for well documented tower	<b>Component Description:</b> WSLs Malouf inv #1805084V4 Structural Analysis UL20180816jg v1 <b>Amount:</b> \$7,000.00
	<b>Component Description:</b> Develop an Upgrade or Replacement solution for Tower - Also See Attached "KGA Quote" <b>Amount:</b> \$750.00
	<b>Component Description:</b> Coordinate Tower mapping & analyses - Also See Attached "KGA Quote" <b>Amount:</b> \$750.00
	<b>Component Description:</b> WSLs Malouf inv #1805084V3 Structural Analysis UL20180815jg v1 <b>Amount:</b> \$3,500.00
	<b>Component Description:</b> Inv: WSLs Structural Analysis UL20180305 <b>Amount:</b> \$4,500.00

	<b>Component Description:</b>  <b>Amount:</b>	Coordinate Tower Modifications - Also See Attached "KGA Quote" \$1,250.00
	<b>Component Description:</b>  <b>Amount:</b>	Inv 1805084V1 WSLS Mod Design and Structural Analysis UL20180424jg v1 \$7,500.00
	<b>Component Description:</b>  <b>Amount:</b>	Inv: WSLS Tower Data Collection UL20180402 \$2,720.00
Serious tower reinforcement/modifications	<b>Component Description:</b>  <b>Amount:</b>	WSLS ERI inv #WSLS-002 Tower work 50 perc dp UL20180731jgv2 \$22,664.56
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Tower Helicopter Lift	Information not provided.	



**Cost  
Information**

**Outside Professional Services**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$453,925.00</b>	<b>\$547,250.00</b>		<b>\$103,293.15</b>	
Other Legal Services	<i>\$1,000.00</i>	\$1,000.00	Other Legal Services related to the DTV Repack	\$68.40	N/A
Other Engineering Services	<i>\$97,500.00</i>	\$97,500.00	Fewer Project 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.	\$46,012.50	N/A
Additional Field Engineering Service, 45 Days	<i>\$90,000.00</i>	\$90,000.00	N/A	\$7,200.00	N/A

RF Exposure Measurements	\$21,050.00	\$20,000.00	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
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
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
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	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	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	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

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	\$2,500.00	N/A	\$3,013.00	Legal assistance beyond that originally anticipated has been required.
Project management of the transition	\$94,800.00	\$187,500.00	N/A	\$26,449.25	N/A
<b>Sub-total</b>	\$453,925.00	\$547,250.00	N/A	\$103,293.15	N/A
<b>Total for all systems</b>	\$4,719,961.00	\$4,755,780.00	N/A	\$835,977.33	N/A

## Components

Actual Information Description	File Name
Other Legal Services	<p><b>Component Description:</b> WSLs Covington inv #60812707 Review and file 2018 Q2 Progress Report UL20181019jgv1</p> <p><b>Amount:</b> \$68.40</p>
Other Engineering Services	<p><b>Component Description:</b> Inv 947-75 WSLs Actual Cost UL20180705jgv1</p> <p><b>Amount:</b> \$1,687.50</p> <p><b>Component Description:</b> Inv 947-88 WSLs OES Jan18 - Jun18 UL20180720jgv1</p> <p><b>Amount:</b> \$44,325.00</p>

<p>Additional Field Engineering Service, 45 Days</p>	<table> <tr> <td data-bbox="692 100 1114 369"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 100 1426 369"> <p>Inv 947-49 WSLS CAS planning procurement and oversight; site visit UL20180412jg</p> </td></tr> <tr> <td data-bbox="692 369 1114 459"> <p><b>Amount:</b></p> </td><td data-bbox="1114 369 1426 459"> <p>\$5,400.00</p> </td></tr> <tr> <td data-bbox="692 459 1114 728"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 459 1426 728"> <p>Inv: WSLS R&amp;S manufacturer visit UL20180316</p> </td></tr> <tr> <td data-bbox="692 728 1114 817"> <p><b>Amount:</b></p> </td><td data-bbox="1114 728 1426 817"> <p>\$1,800.00</p> </td></tr> <tr> <td data-bbox="692 817 1114 1220"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 817 1426 1220"> <p>Additional Field Engineering Services (On Site Equipment inventory &amp; facilities survey) - Also see Attached "KGA Quote"</p> </td></tr> <tr> <td data-bbox="692 1220 1114 1310"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1220 1426 1310"> <p>\$5,400.00</p> </td></tr> <tr> <td data-bbox="692 1310 1114 1440"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 1310 1426 1440"> <p>Inv: WSLS GatesAir manufacturer visit UL20180316</p> </td></tr> <tr> <td data-bbox="692 1440 1114 1529"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1440 1426 1529"> <p>\$1,800.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>Inv 947-49 WSLS CAS planning procurement and oversight; site visit UL20180412jg</p>	<p><b>Amount:</b></p>	<p>\$5,400.00</p>	<p><b>Component Description:</b></p>	<p>Inv: WSLS R&amp;S manufacturer visit UL20180316</p>	<p><b>Amount:</b></p>	<p>\$1,800.00</p>	<p><b>Component Description:</b></p>	<p>Additional Field Engineering Services (On Site Equipment inventory &amp; facilities survey) - Also see Attached "KGA Quote"</p>	<p><b>Amount:</b></p>	<p>\$5,400.00</p>	<p><b>Component Description:</b></p>	<p>Inv: WSLS GatesAir manufacturer visit UL20180316</p>	<p><b>Amount:</b></p>	<p>\$1,800.00</p>
<p><b>Component Description:</b></p>	<p>Inv 947-49 WSLS CAS planning procurement and oversight; site visit UL20180412jg</p>																
<p><b>Amount:</b></p>	<p>\$5,400.00</p>																
<p><b>Component Description:</b></p>	<p>Inv: WSLS R&amp;S manufacturer visit UL20180316</p>																
<p><b>Amount:</b></p>	<p>\$1,800.00</p>																
<p><b>Component Description:</b></p>	<p>Additional Field Engineering Services (On Site Equipment inventory &amp; facilities survey) - Also see Attached "KGA Quote"</p>																
<p><b>Amount:</b></p>	<p>\$5,400.00</p>																
<p><b>Component Description:</b></p>	<p>Inv: WSLS GatesAir manufacturer visit UL20180316</p>																
<p><b>Amount:</b></p>	<p>\$1,800.00</p>																
<p>RF Exposure Measurements</p>	<p>Information not provided.</p>																
<p>Comprehensive coverage verification via field study, if needed</p>	<table> <tr> <td data-bbox="692 1552 1114 1910"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 1552 1426 1910"> <p>Partial Completion of Comprehensive coverage verification via field study - see "KGA Quote" for fixed price fee.</p> </td></tr> <tr> <td data-bbox="692 1910 1114 2000"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1910 1426 2000"> <p>\$38,200.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>Partial Completion of Comprehensive coverage verification via field study - see "KGA Quote" for fixed price fee.</p>	<p><b>Amount:</b></p>	<p>\$38,200.00</p>												
<p><b>Component Description:</b></p>	<p>Partial Completion of Comprehensive coverage verification via field study - see "KGA Quote" for fixed price fee.</p>																
<p><b>Amount:</b></p>	<p>\$38,200.00</p>																

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	<p><b>Component Description:</b> Inv 947-71 WSLS FAA 7460 UL20180531jgv1</p> <p><b>Amount:</b> \$550.00</p>
ASR modification (prepare FCC Form 854)	Information not provided.
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.



Prepare engineering section of FCC Form 2100 (main), 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.								
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<table> <tr> <td><b>Component Description:</b></td><td>Engineering Portion of 1% Expansion CP application for Initial 90-Day Filing Window - Also see "KGA Quote".</td></tr> <tr> <td><b>Amount:</b></td><td>\$3,000.00</td></tr> <tr> <td><b>Component Description:</b></td><td>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.</td></tr> <tr> <td><b>Amount:</b></td><td>\$3,000.00</td></tr> </table>	<b>Component Description:</b>	Engineering Portion of 1% Expansion CP application for Initial 90-Day Filing Window - Also see "KGA Quote".	<b>Amount:</b>	\$3,000.00	<b>Component Description:</b>	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.	<b>Amount:</b>	\$3,000.00
<b>Component Description:</b>	Engineering Portion of 1% Expansion CP application for Initial 90-Day Filing Window - Also see "KGA Quote".								
<b>Amount:</b>	\$3,000.00								
<b>Component Description:</b>	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.								
<b>Amount:</b>	\$3,000.00								

<p>Perform engineering study for new channel assignment and antenna development</p>	<table> <tr> <td data-bbox="699 100 1114 728"> <p><b>Component Description:</b></p> </td><td data-bbox="1139 100 1428 728"> <p>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.</p> </td></tr> <tr> <td data-bbox="699 734 1114 840"> <p><b>Amount:</b></p> </td><td data-bbox="1139 734 1428 840"> <p>\$7,000.00</p> </td></tr> <tr> <td data-bbox="699 846 1114 1108"> <p><b>Component Description:</b></p> </td><td data-bbox="1139 846 1428 1108"> <p>1% Expansion Engineering Studies and Coordination for Initial 90-CP application - Also see "KGA Quote".</p> </td></tr> <tr> <td data-bbox="699 1115 1114 1205"> <p><b>Amount:</b></p> </td><td data-bbox="1139 1115 1428 1205"> <p>\$7,000.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>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.</p>	<p><b>Amount:</b></p>	<p>\$7,000.00</p>	<p><b>Component Description:</b></p>	<p>1% Expansion Engineering Studies and Coordination for Initial 90-CP application - Also see "KGA Quote".</p>	<p><b>Amount:</b></p>	<p>\$7,000.00</p>
<p><b>Component Description:</b></p>	<p>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.</p>								
<p><b>Amount:</b></p>	<p>\$7,000.00</p>								
<p><b>Component Description:</b></p>	<p>1% Expansion Engineering Studies and Coordination for Initial 90-CP application - Also see "KGA Quote".</p>								
<p><b>Amount:</b></p>	<p>\$7,000.00</p>								
<p>Address transition timing and coordination issues w/ other stations and wireless</p>	<p>Information not provided.</p>								

Prepare and or review reimbursement form		
	<b>Component Description:</b>	Inv: WSLS Reimburse review etc UL20180305
	<b>Amount:</b>	\$513.00
	<b>Component Description:</b>	Prepared FCC 399 reimbursement form (Initial Filing) - Also see attached "KGA Quote"
	<b>Amount:</b>	\$2,500.00
	<b>Component Description:</b>	Inv: WSLS Various legal UL20180329 rev'd 20180329jg
	<b>Amount:</b>	\$1,197.90
	<b>Component Description:</b>	Inv: WSLS Various legal UL20180305
	<b>Amount:</b>	\$1,295.00

Project management of  
the transition

**Component Description:** Inv: WSLS 2017Q3  
387 UL20180302  
**Amount:** \$300.00

**Component Description:** Inv 947-65 WSLS  
Proj Mgt 2017 Aug -  
Dec  
UL20180625jgv2  
**Amount:** \$20,190.00

**Component Description:** Inv 947-81 WSLS  
2018Q2 387  
UL20180713jgv1  
**Amount:** \$300.00

**Component Description:** Inv 60768465  
WSLS Various legal  
UL20180514 jgv1  
**Amount:** \$1,559.25

**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 947-57 WSLS  
2018Q1 387  
UL20180622jgv1  
**Amount:** \$300.00

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$195,190.00</b>	<b>\$194,585.00</b>		<b>\$0.00</b>	
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$50,000.00</i>	\$50,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$10,000.00</i>	\$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
Develop and air announcement of upcoming channel change	<b>\$100,000.00</b>	\$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	<b>\$10,000.00</b>	\$10,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$195,190.00	\$194,585.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$4,719,961.00	\$4,755,780.00	N/A	\$835,977.33	N/A

## Components

Information not provided.

**Cost  
Information**

**Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,719,961.00	\$4,755,780.00	\$835,977.33

**Reimbursement Status**

Question	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	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	



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

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>10/19/2018</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>10/19/2018</p>

## Attachments