



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **71297** | Service: **DTV** | Call **WCSC-TV** | Channel: **19 (UHF)** |  
ID: | Sign:  
File **0000024799**  
Number:  
FRN: **0018223693** | Date **11/16**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WCSC LICENSE SUBSIDIARY, LLC</b>	RSA TOWER, 20TH FLOOR 201 MONROE STREET MONTGOMERY, AL 36104 United States	+1 (334) 206- 1400	fcclms@raycommedia. 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
The Preparer is same as the reimbursement contact.			

## Broadcaster Information and Transition Plan

Question	Response
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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.	Yes
Briefly describe transition plan	Install interim antenna and connect to existing line Install new 7" EIA tx line and connect to existing antenna Will require new combiner for WCSC and WGWG. WGWG is not repacked.

## Transmitters

Section	Question	Response
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

## Auxiliary Transmitter

### Add Transmitter Information

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	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	Harris
	Model	UAX
	Year	2012

	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.5 kW

**Auxiliary  
Transmitter**

**Retuning Transmitter Costs**

Section	Question	Response
<b>New IOT Tubes</b>	Number of Tubes (including accessories) needed	N/A
<b>New Mask Filter</b>	Power	3 kW
	Other Power	N/A
<b>New Exciter</b>	Is a new exciter needed?	No

**Auxiliary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	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	Power CD
	Year	2014
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30.1 kW
	Justification for New Transmitter	The cost of rental main transmitter coupled with the cost to retune the existing main transmitter is more expensive than the purchase of a comparable solid state transmitter. Quotes attached.

**Primary  
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	300 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Electrical panel, conduit and wire
<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?	Yes
	Size	200.0 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

**Primary Transmitter**

**Other Transmitter Cost Not Listed**

Information not provided.

**Antennas**

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

**Primary  
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	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?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	10
	Design power capacity in use	40.0 %
	Lower Limit	470.00 MHz



Upper Limit	690.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power) .....	1000.0 kW
Manufacturer	Dielectric
Model	TUP-C3-10-1
Year	2003

**Facility ID's and Call Signs of all stations with whom the antenna is shared.**

Facility ID	Call Sign
21536	WGWG

**Primary Antenna**

**Adjustment to Existing Antenna**

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

**Primary Antenna**

**Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A

**Enter a list of RF channel numbers.**

RF Channel Number
34
19

Primary  
Antenna

Other Antenna Cost Not Listed

Name	Description
Combiner installation	Installation of new combiner.

Interim  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	2
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz

Upper Limit	686.00 MHz
Design power capacity in use	40.0 %
Other Antenna Type	N/A
ERP: (Effective Radiated Power) .....	1000.0 kW
Manufacturer	
Model	TFU-WB16
Year	2019
Justification for New Antenna	Interim antenna for use while new transmission line is installed and connected to existing panel antenna.

## Interim 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 an antenna?	No
<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

## Interim Antenna

### Other Antenna Cost Not Listed

Information not provided.

**Transmission Line**

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

**Primary  
Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1920 feet per run

**Facility ID's and Call Signs of all stations with whom the transmission line is shared.**

Facility ID	Call Sign
21536	WGWG

Primary  
Transmission Line

New Transmission Line

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
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1920 feet per run

	Justification for New Transmission Line	Existing line is not true broadband but has selected cut sections to make the line work on current digital channel 47 and analog channel 5. Will not work on channel 19. Sweep data and comments attached. Existing line to serve as interim.
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Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Nitrogen	Tanks to pressurize new line



**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?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	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	1051231
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	32° 55' 29.0" N-
	Longitude (NAD83)	079° 41' 57.0" W-
	Overall Structure Height	1999.98 feet
	Support Structure Height	1999.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	16.08 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	WCSC, LLC
	Date Constructed	10/07/2009

**FM, AM or TV radio  
broadcasters. Facility ID's,  
Call Signs and Services of  
other broadcast stations with  
whom the tower is shared**

Facility ID	Call Sign	Service
21536	WGWG	DTV
61005	WITV	DTV
60950	WSCI	FM
60039	WIWF	FM

## Primary Tower

### Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

## Primary Tower

### Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A

<b>Helicopter Services Required</b>	Are helicopter services required?	No
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**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	595
	Explanation	WCSC-TV requires the aid of outside project management services in order to fulfill the requirements of the repack transition.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes

	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	1
	Justification	RF system analysis

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**

If provided, please provide details.

## Other Expenses

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

**Other  
Expenses**

**Other Expenses Not Listed**

Name		Description
Security		Site Security to deter copper theft
Internal Corporate Project Management		Raycom Media Corp Project management

## 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 ULXTE-50	\$1,048,823.58	\$1,072,882.89		\$995,941.64	
Other -- Building Addition Size: 200.0	<i>\$2,492.00</i>	\$2,492.00	minor ductwork demolition to allow for new RF system installation. Invoice attached	\$2,492.00	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$429.00	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$974,759.31	Quote attached	\$968,689.06	N/A



Other Electrical Service: Electrical panel, conduit and wire	<b>\$24,331.58</b>	\$24,331.58	Heat Exchanger disconnect panels, new 480v disconnect, new 400 amp distribution panel. Quote attached Invoices received	\$24,331.58	a
<b>Auxiliary Transmitter UAX</b>	<b>\$109,355.00</b>	<b>\$11,092.44</b>		<b>\$2,773.11</b>	
3 kW mask filter	\$4,155.00	\$0.00	included in retune quote attached	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$11,092.44	Quote attached	\$2,773.11	N/A
<b>Sub-total</b>	<b>\$1,158,178.58</b>	<b>\$1,083,975.33</b>	N/A	<b>\$998,714.75</b>	N/A
<b>Total for all systems</b>	<b>\$2,569,325.13</b>	<b>\$2,143,935.88</b>	N/A	<b>\$1,473,954.98</b>	N/A

## Components

Actual Information	
Description	File Name
Other -- Building Addition Size: 200.0	<b>Component Description:</b> Duct Work <b>Amount:</b> \$2,492.00
Transformer 3 phase/480v - 300 KVA	Information not provided.

Switchgear - industrial 800 amp	<div> <div>Component Description:</div> <div>Copper Strap</div> </div> <div> <div>Amount:</div> <div>\$429.00</div> </div>
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<div> <div>Component Description:</div> <div>UXLTE-50 Transmitter</div> </div> <div> <div>Amount:</div> <div>\$408,330.08</div> </div>
	<div> <div>Component Description:</div> <div>ULXTE-50 Per quote</div> </div> <div> <div>Amount:</div> <div>\$97,475.93</div> </div>
	<div> <div>Component Description:</div> <div>1/3 of Liquid Cooled Solid state transmitter due prior to shipment</div> </div> <div> <div>Amount:</div> <div>\$319,229.69</div> </div>
	<div> <div>Component Description:</div> <div>15% of Liquid Cooled Solid State Transmitter</div> </div> <div> <div>Amount:</div> <div>\$143,653.36</div> </div>
Other Electrical Service: Electrical panel, conduit and wire	<div> <div>Component Description:</div> <div>Union, Cast Copper, 1-1/2" Tube, CXC</div> </div> <div> <div>Amount:</div> <div>\$219.05</div> </div>
	<div> <div>Component Description:</div> <div>Installed new Channel 2 Tower Transmitter Panel</div> </div> <div> <div>Amount:</div> <div>\$23,922.00</div> </div>
	<div> <div>Component Description:</div> <div>Clevis Hanger Adjustable Pipe</div> </div> <div> <div>Amount:</div> <div>\$190.53</div> </div>

3 kW mask filter	Information not provided.	
UHF and VHF - minor banding issues	<b>Component Description:</b>	Channel Change UAX-2000 per quote
	<b>Amount:</b>	\$1,109.24
	<b>Component Description:</b>	15% of channel change and proof
	<b>Amount:</b>	\$1,663.87

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TFU-WB16</b>	<b>\$130,120.70</b>	<b>\$129,790.70</b>		<b>\$115,242.78</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,000.00	Quote attached
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1000 kW input, directional,, horizontally polarized	<b><i>\$123,390.70</i></b>	\$123,390.70	Quote 63001 attached	\$112,242.78	Quote: 123,390.7 Invoice Total: 111,290.92
<b>Primary Antenna TUP-C3-10-1</b>	<b>\$105,930.00</b>	<b>\$21,400.00</b>		<b>\$11,801.29</b>	
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	Included in TX line quote 67003 attached	N/A	N/A

UHF - High Power, Side Mount, broadband panel, 10 bay,, 1000 kW input, directional,, horizontally polarized	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,709.04	N/A
Combiner installation	<b>\$15,000.00</b>	\$15,000.00	N/A	\$9,092.25	N/A
<b>Sub-total</b>	\$236,050.70	\$151,190.70	N/A	\$127,044.07	N/A
<b>Total for all systems</b>	\$2,569,325.13	\$2,143,935.88	N/A	\$1,473,954.98	N/A

## Components

Actual Information	
Description	File Name
Sweep test of existing antenna	<p><b>Component Description:</b> RF sweep testing of two coax transmission lines</p> <p><b>Amount:</b> \$3,000.00</p>

<p>UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1000 kW input, directional,, horizontally polarized</p>	<table> <tr> <td data-bbox="713 174 1023 208"><b>Component Description:</b></td><td data-bbox="1158 174 1342 365">T/L 6-75 EIA Length up to 5' fixed flg 1 end/ swivel flg 1 end</td></tr> <tr> <td data-bbox="713 338 826 365"><b>Amount:</b></td><td data-bbox="1158 338 1257 365">\$951.86</td></tr> <tr> <td data-bbox="713 477 1023 510"><b>Component Description:</b></td><td data-bbox="1158 477 1342 510">interim antenna</td></tr> <tr> <td data-bbox="713 517 826 544"><b>Amount:</b></td><td data-bbox="1158 517 1294 544">\$30,847.68</td></tr> <tr> <td data-bbox="713 656 1023 689"><b>Component Description:</b></td><td data-bbox="1158 656 1369 689">10% Balance Due</td></tr> <tr> <td data-bbox="713 696 826 723"><b>Amount:</b></td><td data-bbox="1158 696 1294 723">\$18,747.89</td></tr> <tr> <td data-bbox="713 835 1023 869"><b>Component Description:</b></td><td data-bbox="1158 835 1342 869">interim antenna</td></tr> <tr> <td data-bbox="713 875 826 902"><b>Amount:</b></td><td data-bbox="1158 875 1294 902">\$61,695.35</td></tr> </table>	<b>Component Description:</b>	T/L 6-75 EIA Length up to 5' fixed flg 1 end/ swivel flg 1 end	<b>Amount:</b>	\$951.86	<b>Component Description:</b>	interim antenna	<b>Amount:</b>	\$30,847.68	<b>Component Description:</b>	10% Balance Due	<b>Amount:</b>	\$18,747.89	<b>Component Description:</b>	interim antenna	<b>Amount:</b>	\$61,695.35
<b>Component Description:</b>	T/L 6-75 EIA Length up to 5' fixed flg 1 end/ swivel flg 1 end																
<b>Amount:</b>	\$951.86																
<b>Component Description:</b>	interim antenna																
<b>Amount:</b>	\$30,847.68																
<b>Component Description:</b>	10% Balance Due																
<b>Amount:</b>	\$18,747.89																
<b>Component Description:</b>	interim antenna																
<b>Amount:</b>	\$61,695.35																
<p>New combiner, cost per channel (without antenna)</p>	<p>Information not provided.</p>																
<p>UHF - High Power, Side Mount, broadband panel, 10 bay,, 1000 kW input, directional,, horizontally polarized</p>	<p>Information not provided.</p>																
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="713 1391 1023 1424"><b>Component Description:</b></td><td data-bbox="1158 1391 1302 1462">Engineering Services</td></tr> <tr> <td data-bbox="713 1469 826 1496"><b>Amount:</b></td><td data-bbox="1158 1469 1278 1496">\$2,709.04</td></tr> </table>	<b>Component Description:</b>	Engineering Services	<b>Amount:</b>	\$2,709.04												
<b>Component Description:</b>	Engineering Services																
<b>Amount:</b>	\$2,709.04																

Combiner installation		
	<b>Component Description:</b>	Connect coax output of WGWG-TV transmitter into WCSC-TV's new 2-station RF combiner
	<b>Amount:</b>	\$1,730.00
	<b>Component Description:</b>	Electrical Testing
	<b>Amount:</b>	\$7,362.25

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	\$639,793.93	\$414,702.93		\$88,580.45	
Nitrogen	<i>\$433.93</i>	\$433.93	Airgas invoices total (attached)	\$433.93	N/A
Rigid Transmission Line - copper, 7 3 /16" broadband	\$639,360.00	\$414,269.00	Quote 67003: 390,816.00 C/O: 2/8 /18: 10,015.00 cut sections C /O: 1/23 /18: 13,438.00 cut sections Net: 414,269	\$88,146.52	N/A
Sub-total	\$639,793.93	\$414,702.93	N/A	\$88,580.45	N/A
Total for all systems	\$2,569,325.13	\$2,143,935.88	N/A	\$1,473,954.98	N/A

Components

Actual Information	
Description	File Name



Nitrogen	<b>Component Description:</b>	Nitrogen Industrial
		300
	<b>Amount:</b>	\$199.31
	<b>Component Description:</b>	Nitrogen Industrial
		300
	<b>Amount:</b>	\$234.62

Rigid Transmission Line -  
copper, 7 3/16" broadband

**Component Description:**

Rigid  
Transmission Line

**Amount:**

\$21,229.11

**Component Description:**

Rigid  
Transmission Line  
10% Balance Due

**Amount:**

\$39,081.53

**Component Description:**

Rigid  
Transmission Line

**Amount:**

\$14,769.15

**Component Description:**

Reducer, Flange,  
etc

**Amount:**

\$4,271.33

**Component Description:**

Elbow, Anchor,  
Flange quote with  
change orders  
attached

**Amount:**

\$8,795.40

**Component Description:**

Interim Antenna

**Amount:**

N/A

**Component Description:**

Interim Antenna

**Amount:**

N/A

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	\$236,800.00	\$203,600.00		\$198,600.00	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$18,600.00	Per invoices received	\$18,600.00	There is a pre-determined cost that is more than the invoice.
Tall Tower (greater than 500')	\$210,500.00	\$185,000.00	N/A	\$180,000.00	N/A
Sub-total	\$236,800.00	\$203,600.00	N/A	\$198,600.00	N/A
Total for all systems	\$2,569,325.13	\$2,143,935.88	N/A	\$1,473,954.98	N/A

Components

Actual Information	
Description	File Name

<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<table> <tr> <td data-bbox="713 100 1023 315"><b>Component Description:</b></td><td data-bbox="1023 100 1428 315">Tower Service - Mapping of WCSC Facility ID # 71297</td></tr> <tr> <td data-bbox="713 315 1023 405"><b>Amount:</b></td><td data-bbox="1023 315 1428 405">\$5,500.00</td></tr> <tr> <td data-bbox="713 450 1023 573"><b>Component Description:</b></td><td data-bbox="1023 450 1428 573">WCSC's portion of tower mapping services</td></tr> <tr> <td data-bbox="713 573 1023 663"><b>Amount:</b></td><td data-bbox="1023 573 1428 663">\$5,500.00</td></tr> <tr> <td data-bbox="713 707 1023 831"><b>Component Description:</b></td><td data-bbox="1023 707 1428 831">Feasibility Structural Analysis</td></tr> <tr> <td data-bbox="713 831 1023 943"><b>Amount:</b></td><td data-bbox="1023 831 1428 943">\$7,600.00</td></tr> </table>	<b>Component Description:</b>	Tower Service - Mapping of WCSC Facility ID # 71297	<b>Amount:</b>	\$5,500.00	<b>Component Description:</b>	WCSC's portion of tower mapping services	<b>Amount:</b>	\$5,500.00	<b>Component Description:</b>	Feasibility Structural Analysis	<b>Amount:</b>	\$7,600.00
<b>Component Description:</b>	Tower Service - Mapping of WCSC Facility ID # 71297												
<b>Amount:</b>	\$5,500.00												
<b>Component Description:</b>	WCSC's portion of tower mapping services												
<b>Amount:</b>	\$5,500.00												
<b>Component Description:</b>	Feasibility Structural Analysis												
<b>Amount:</b>	\$7,600.00												
<p>Tall Tower (greater than 500')</p>	<table> <tr> <td data-bbox="713 943 1023 1133"><b>Component Description:</b></td><td data-bbox="1023 943 1428 1133">Completion of Phase 1a of WCSC</td></tr> <tr> <td data-bbox="713 1133 1023 1223"><b>Amount:</b></td><td data-bbox="1023 1133 1428 1223">\$130,000.00</td></tr> <tr> <td data-bbox="713 1267 1023 1391"><b>Component Description:</b></td><td data-bbox="1023 1267 1428 1391">Down payment /mobilization for WCSC</td></tr> <tr> <td data-bbox="713 1391 1023 1494"><b>Amount:</b></td><td data-bbox="1023 1391 1428 1494">\$50,000.00</td></tr> </table>	<b>Component Description:</b>	Completion of Phase 1a of WCSC	<b>Amount:</b>	\$130,000.00	<b>Component Description:</b>	Down payment /mobilization for WCSC	<b>Amount:</b>	\$50,000.00				
<b>Component Description:</b>	Completion of Phase 1a of WCSC												
<b>Amount:</b>	\$130,000.00												
<b>Component Description:</b>	Down payment /mobilization for WCSC												
<b>Amount:</b>	\$50,000.00												

## Cost Information

### Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$203,660.00</b>	<b>\$203,425.00</b>		<b>\$3,243.73</b>	
Project management of the transition	\$94,010.00	\$99,675.00	Please see the attached Widelity quote.	N/A	N/A
Additional Field Engineering Service, 1 Days	<i>\$0.00</i>	\$0.00	not required	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,375.00	Estimated cost to be added.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	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

Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	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
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$868.73	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$203,660.00	\$203,425.00	N/A	\$3,243.73	N/A
<b>Total for all systems</b>	\$2,569,325.13	\$2,143,935.88	N/A	\$1,473,954.98	N/A

## Components

Actual Information	
Description	File Name
Project management of the transition	<p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$2,212.45</p>

Additional Field Engineering Service, 1 Days	Information not provided.
Perform engineering study for new channel assignment and antenna development	<div> <div> <b>Component Description:</b> </div> <div> Engineering study work new channel and antenna development </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$125.00 </div> </div>
	<div> <div> <b>Component Description:</b> </div> <div> Engineering study and preparation of engineering portion of FCC Form 2100 </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$2,250.00 </div> </div>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	<div> <div> <b>Component Description:</b> </div> <div> Professional legal services </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$868.73 </div> </div>
Comprehensive coverage verification via field study, if needed	Information not provided.

## 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>\$94,841.92</b>	<b>\$87,041.92</b>		<b>\$55,559.53</b>	
Security	<i>\$7,072.00</i>	\$7,072.00	Hours and cost verification attached with initial quote	\$7,072.00	N/A
Equipment Delivery and Handling Charges	<i>\$18,369.92</i>	\$18,369.92	On site forklift rental Per invoice received	\$18,369.92	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
Equipment Storage	<i>\$20,000.00</i>	\$20,000.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,850.00</i>	\$2,850.00	estimate for on air rescan announcement production. Quote attached	N/A	N/A
MVPD Notification of Channel Change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A



Internal Corporate Project Management	\$35,000.00	\$35,000.00	Estimated internal labor cost Detailed spreadsheet will be attached for each invoice	\$26,367.61	N/A
Sub-total	\$94,841.92	\$87,041.92	N/A	\$55,559.53	N/A
Total for all systems	\$2,569,325.13	\$2,143,935.88	N/A	\$1,473,954.98	N/A

Components

Actual Information	
Description	File Name
Security	Component Description: Security
	Amount: \$4,080.00
	Component Description: Security
	Amount: \$2,992.00

Equipment Delivery and Handling Charges	<b>Component Description:</b> Shooting Boom Forklift Rental <b>Amount:</b> \$4,772.33
	<b>Component Description:</b> Diesel <b>Amount:</b> \$80.93
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$3,040.34
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$5,463.00
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$5,013.32
DTV Medical Facility Notification	<b>Component Description:</b> Medical Notifiaction <b>Amount:</b> \$3,750.00
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Internal Corporate Project Management	<b>Component Description:</b> Internal Project Management See attachment for details <b>Amount:</b> \$26,367.61



Cost Information	Grand Total		
	Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,569,325.13	\$2,143,935.88
			\$1,473,954.98

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>Robert Thurber</b> VP, <i>Engineering</i></p> <p>11/16/2018</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>Robert Thurber</b> <i>VP, Engineering</i></p> <p>11/16/2018</p>

## Attachments