



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **26304** | Service: **DTV** | Call **KENS** | Channel: **29 (UHF)** |
ID: | Sign:
File **0000027992**
Number:
FRN: **0003801594** | Date **11/20**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KENS-TV, INC.	Denise Branson, Sr. Paralegal TEGNA Inc. 8350 Broad Street, Suite 2000 Tysons, VA 22102 United States	+1 (703) 873-6606	dbranson@TEGNA.com	Corporation

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
Gary Davis <i>Regional Head of Technology and Operations</i> TEGNA	Gary Davis 8350 Broad Street Suite 2000 Tysons, VA 22102 United States	+1 (404) 873-9199	gadavis@tegna.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	KENS will be transitioning from channel 39 to channel 29. The KENS tower is shared with Sinclair. KENS is the bottom half of a 2 antenna stack. KENS has a licensed auxiliary & main transmitter that will need to be replaced as part of this repack.

Transmitters

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

**Auxiliary
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Reduced power Backup Transmitter
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Diamond DHD8D1
	Year	2000
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2 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	UAXTE- 4R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.4 kW
	Justification for New Transmitter	The older Diamond series of Harris transmitters cannot be re-tuned and and are no longer supported.

**Auxiliary
Transmitter****Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	2 inches

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

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	CD3260P2- CF
	Year	2004
	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 90
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	56.4 kW
	Justification for New Transmitter	Per the original manufacturer the transmitter cannot be re-tuned. The parts are not available. The reimbursable TPO is 51.7 kW based on initial 90-day filing CP. This requires a ULXTE-90 and is therefore reimbursable.

**Primary
Transmitter**

Other Transmitter Costs

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

	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	100.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Coax elbows	Coax elbows

Antennas

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

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

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup Antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	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)	54.3 kW

Manufacturer	
Model	TFU-32DSB-H
Year	2008

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Backup Antenna for maintenance and repairs
	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?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	8
	Lower Limit	620.00 MHz
	Upper Limit	626.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	54.3 kW

Manufacturer	
Model	TFU-16WB
Year	2019
Justification for New Antenna	Existing AUX can't be re-tuned. A new AUX antenna is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. TFU-8WB cost is equivalent to a single-channel slot AUX antenna and is required for replication.

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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

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

Auxiliary Antenna

Other Antenna Cost Not Listed

Name	Description
Shipping	\$5,400

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	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-30BH-R06
Year	2008

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?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	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)	816.0 kW
	Manufacturer	

Model	TFU-26GBH-R06
Year	2019
Justification for New Antenna	Licensed top-mount antenna cannot be re-tuned for new post-transition frequency and must be replaced.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Name		Description
Shipping		\$6,800
New Top Plate		Existing top-plate and/or bolt pattern may not work for new top-mount antenna.

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	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup transmission line
	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	
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1515 feet per run

Auxiliary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Backup transmission line
	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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1515 feet per run
	Justification for New Transmission Line	Current 20 ft line sections will not work on the new channel assignment.

Auxiliary **Other Transmission Line Expenses Not Listed**
Transmission Line

Name	Description
TX Line Sweep	Sweep required to verify post-transition channel measures well on existing line.

Primary
Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1675 feet per run

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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1675 feet per run
	Justification for New Transmission Line	Old 20 foot line sections will not work on the new channel assignment.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
TX Line Sweep	Sweep required to verify post-transition channel measures well on existing 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?	No
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1226610
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	29° 16' 11.5" N-
	Longitude (NAD83)	098° 15' 55.9" W-
	Overall Structure Height	1529.84 feet
	Support Structure Height	1526.56 feet
	Ground Elevation Above Mean Sea Level (AMSL)	519.02 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Texas Tall Tower Corporation
	Date Constructed	12/13/2001

**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
69618	WOAI-TV	DTV

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:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Helicopter Security	Helicopter Security

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	750
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399s. Station does not have available personnel or personnel trained in project management for such complex projects.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes

	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	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	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes

Number of Days	20
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
Other Engineering Services	Fewer PM tasks are required & Other Engineering Services are required, therefore the PM total has been reduced to 750 hrs (\$112,500.00 at \$150/hr), & a new OES category has been created & funded with the \$ removed from PM. See KGA quote to KENS for OE.pdf
Other Legal Services	Other Legal Services related to the DTV Repack
Pre-Submission Site Review	We hired Osborne Engineering to review or sites to insure that we were not missing items.

Other Expenses

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

**Other
Expenses**

Other Expenses Not Listed

NameDescription	
Demolition	Demolition
Internal Labor	Internal and Corporate labor
Sales Tax	Sales Tax
Transmitter Installation	Transmitter Installation
Viewer call assistance service	Viewer call assistance service
Coaxial switch installation	Coaxial switch installation

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 90	\$1,912,125.07	\$1,761,803.43		\$1,667,099.00	
Coax elbows	<i>\$4,630.20</i>	\$4,630.20	See attached / uploaded PDF file titled "Myat 00090198 v201119jgv1.pdf"	\$4,440.00	N/A
Other -- Building Addition Size: 100.0	<i>\$25,000.00</i>	\$25,000.00	New pad required for heat exchangers, transformers, pumps, etc. Equipment must also be shielded.	\$7,644.43	N/A
Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	<i>\$89,294.87</i>	\$89,294.87	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	\$89,294.87	N/A

3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,637,978.36	N/A	\$1,565,719.70	N/A
Auxiliary Transmitter UAXTE-4R37	\$153,600.00	\$142,668.92		\$115,168.92	
Other Electrical Service: Additional electrical services required for transmitter installation.	\$25,000.00	\$25,000.00	Additional electrical services required for transmitter installation.	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,500.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$115,168.92	For explanation and costs, see attached "Gates 464956212 JW30004287-2 181207 181207 Transmitter UAXTE-4R37 aux pmt 2 41932-35 v1.pdf"	\$115,168.92	N/A
Sub-total	\$2,065,725.07	\$1,904,472.35	N/A	\$1,782,267.92	N/A
Total for all systems	\$4,992,201.32	\$4,735,521.58	N/A	\$3,419,606.05	N/A

Components

Actual Information	
Description	File Name
Coax elbows	<p>Component Description: Myat 00090198 v201119jgv1</p> <p>Amount: \$4,440.00</p>
Other -- Building Addition Size: 100.0	<p>Component Description: Inv 12114 KENS Various electrical materials UL20180522jg v1</p> <p>Amount: \$85.13</p> <p>Component Description: Inv 0581 02 38352 KENS Various electrical materials UL20180522jg v1</p> <p>Amount: \$25.67</p> <p>Component Description: Alterman 101616 v190514jgv1</p> <p>Amount: \$6,846.00</p> <p>Component Description: Inv 11182017 KENS Dumpster rental UL20180605jgv2</p> <p>Amount: \$620.62</p> <p>Component Description: Inv S1155JG7 2199758 KENS Various electrical materials UL20180522jgv1</p> <p>Amount: \$67.01</p>

<p>Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.</p>	<table> <tr> <td data-bbox="697 174 1007 208">Component Description:</td><td data-bbox="1142 174 1342 246">Alterman 103993 v190814jgv1</td></tr> <tr> <td data-bbox="697 255 810 288">Amount:</td><td data-bbox="1142 255 1275 288">\$34,130.89</td></tr> <tr> <td data-bbox="697 396 1007 430">Component Description:</td><td data-bbox="1142 396 1342 508">Inv 90448 KENS Electrical UL20180531jgv1</td></tr> <tr> <td data-bbox="697 517 810 551">Amount:</td><td data-bbox="1142 517 1262 551">\$4,554.00</td></tr> <tr> <td data-bbox="697 656 1007 689">Component Description:</td><td data-bbox="1142 656 1342 728">Alterman 100535 v190510jgv1</td></tr> <tr> <td data-bbox="697 736 810 770">Amount:</td><td data-bbox="1142 736 1275 770">\$23,272.06</td></tr> <tr> <td data-bbox="697 875 1007 909">Component Description:</td><td data-bbox="1142 875 1342 947">Alterman 101616 v190514jgv1</td></tr> <tr> <td data-bbox="697 956 810 990">Amount:</td><td data-bbox="1142 956 1275 990">\$10,331.00</td></tr> <tr> <td data-bbox="697 1095 1007 1128">Component Description:</td><td data-bbox="1142 1095 1342 1167">Alterman 100535 v190510jgv1</td></tr> <tr> <td data-bbox="697 1176 810 1209">Amount:</td><td data-bbox="1142 1176 1275 1209">\$17,006.92</td></tr> </table>	Component Description:	Alterman 103993 v190814jgv1	Amount:	\$34,130.89	Component Description:	Inv 90448 KENS Electrical UL20180531jgv1	Amount:	\$4,554.00	Component Description:	Alterman 100535 v190510jgv1	Amount:	\$23,272.06	Component Description:	Alterman 101616 v190514jgv1	Amount:	\$10,331.00	Component Description:	Alterman 100535 v190510jgv1	Amount:	\$17,006.92
Component Description:	Alterman 103993 v190814jgv1																				
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Component Description:	Alterman 101616 v190514jgv1																				
Amount:	\$10,331.00																				
Component Description:	Alterman 100535 v190510jgv1																				
Amount:	\$17,006.92																				
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>																				
<p>UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW</p>	<table> <tr> <td data-bbox="697 1453 1007 1487">Component Description:</td><td data-bbox="1142 1453 1307 1525">Holes 019972 v190606pmv1</td></tr> <tr> <td data-bbox="697 1534 810 1568">Amount:</td><td data-bbox="1142 1534 1238 1568">\$562.90</td></tr> <tr> <td data-bbox="697 1675 1007 1709">Component Description:</td><td data-bbox="1142 1675 1374 1865">Gates inv #JW30004286-2 Transmitter ULXTE-90 & filter pmt 2 UL20180606jgv1</td></tr> <tr> <td data-bbox="697 1874 810 1908">Amount:</td><td data-bbox="1142 1874 1289 1908">\$729,968.80</td></tr> </table>	Component Description:	Holes 019972 v190606pmv1	Amount:	\$562.90	Component Description:	Gates inv #JW30004286-2 Transmitter ULXTE-90 & filter pmt 2 UL20180606jgv1	Amount:	\$729,968.80												
Component Description:	Holes 019972 v190606pmv1																				
Amount:	\$562.90																				
Component Description:	Gates inv #JW30004286-2 Transmitter ULXTE-90 & filter pmt 2 UL20180606jgv1																				
Amount:	\$729,968.80																				

	Component Description: Anderson 5352184 v190606pmv1 Amount: \$947.41
	Component Description: Anderson 1563030 v190611pmv1 Amount: \$838.98
	Component Description: Alterman 101616 v190514jgv1 Amount: \$7,345.00
	Component Description: Bird 574415 v190606pmv1 Amount: \$382.49
	Component Description: Inv JW30004286- DP KENS Transmitter ULXTE- 90 & filter UL20180606jg 50 perc dp v2 Amount: \$821,575.48
	Component Description: United 167764509- 001 v190530pmv1 Amount: \$4,098.64
Other Electrical Service: Additional electrical services required for transmitter installation.	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

UHF - Air Cooled Solid
State Transmitter 1 - 2.5
kW

Component Description:

Inv JW30004287-
DP KENS
Transmitter UAXTE-
4R37 aux
UL20180606jg 50
perc dp v2

Amount:

\$57,243.81

Component Description:

Myat 00087567
v190711jgv1

Amount:

\$1,083.29

Component Description:

Gates US0329377
V190904pmv1

Amount:

\$14,909.47

Component Description:

Gates inv
#JW30004287-2
Transmitter UAXTE-
4R37 aux pmt 2
UL20190222jgv1

Amount:

\$41,932.35

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-26GBH-R 06	\$330,947.00	\$435,743.12		\$388,621.44	
New Top Plate	<i>\$25,000.00</i>	\$25,000.00	Existing top-plate and/or bolt pattern may not work for new top-mount antenna	\$309.57	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$12,383.00	N/A	\$12,383.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$353,643.12	Bottom antenna in a two Antenna stack. it must be able to hold the load of the top antenna.	\$353,643.12	N/A

Shipping	\$38,317.00	\$38,317.00	Please see attached invoices	\$22,285.75	N/A
Auxiliary Antenna TFU-16WB	\$151,521.25	\$165,223.25		\$108,383.20	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	\$10,950.00	\$8,232.00	N/A	\$823.20	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	\$107,560.00	Cost estimate now includes a power divider to combine two TFU-8WB antennas into a single TFU-16WB.	\$107,560.00	N/A
Shipping	\$16,031.25	\$16,031.25	Please see attached invoices and quotes.	\$0.00	N/A

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$482,468.25	\$600,966.37	N/A	\$497,004.64	N/A
Total for all systems	\$4,992,201.32	\$4,735,521.58	N/A	\$3,419,606.05	N/A

Components

Actual Information	
Description	File Name
New Top Plate	<p>Component Description: Myat 00087466 v190626pmv1</p> <p>Amount: \$309.57</p>

<p>Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="699 98 1114 365"> <p>Component Description:</p> </td><td data-bbox="1137 98 1428 365"> <p>KENS Die inv #MAN00713 Elbow complex 45 perc down pmt UL20181001jgv1</p> </td></tr> <tr> <td data-bbox="699 376 1114 421"> <p>Amount:</p> </td><td data-bbox="1137 376 1428 421"> <p>\$5,572.35</p> </td></tr> <tr> <td data-bbox="699 521 1114 667"> <p>Component Description:</p> </td><td data-bbox="1137 521 1428 667"> <p>Die inv #MAN00796 Primary ant elbow complex pmt 2 UL20190227jgv1</p> </td></tr> <tr> <td data-bbox="699 678 1114 723"> <p>Amount:</p> </td><td data-bbox="1137 678 1428 723"> <p>\$5,572.35</p> </td></tr> <tr> <td data-bbox="699 824 1114 891"> <p>Component Description:</p> </td><td data-bbox="1137 824 1428 891"> <p>Die 417012 v190815pmv1</p> </td></tr> <tr> <td data-bbox="699 902 1114 947"> <p>Amount:</p> </td><td data-bbox="1137 902 1428 947"> <p>\$1,238.30</p> </td></tr> </table>	<p>Component Description:</p>	<p>KENS Die inv #MAN00713 Elbow complex 45 perc down pmt UL20181001jgv1</p>	<p>Amount:</p>	<p>\$5,572.35</p>	<p>Component Description:</p>	<p>Die inv #MAN00796 Primary ant elbow complex pmt 2 UL20190227jgv1</p>	<p>Amount:</p>	<p>\$5,572.35</p>	<p>Component Description:</p>	<p>Die 417012 v190815pmv1</p>	<p>Amount:</p>	<p>\$1,238.30</p>
<p>Component Description:</p>	<p>KENS Die inv #MAN00713 Elbow complex 45 perc down pmt UL20181001jgv1</p>												
<p>Amount:</p>	<p>\$5,572.35</p>												
<p>Component Description:</p>	<p>Die inv #MAN00796 Primary ant elbow complex pmt 2 UL20190227jgv1</p>												
<p>Amount:</p>	<p>\$5,572.35</p>												
<p>Component Description:</p>	<p>Die 417012 v190815pmv1</p>												
<p>Amount:</p>	<p>\$1,238.30</p>												
<p>Sweep test of existing antenna</p>	<p>Information not provided.</p>												

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

Component Description: Die 393015
v200103pmv4
Amount: \$35,310.00

Component Description: Eos 31610
v190604pmv1
Amount: \$543.12

Component Description: KENS Die inv
#MAN00713
Antenna 45 perc
down pmt
UL20181001jgv1
Amount: \$158,895.00

Component Description: Die 393015
v190926pmv3
Amount: \$35,310.00

Component Description: Die inv #MAN00796
Primary ant pmt 2
UL20190227jgv1
Amount: \$158,895.00

Component Description: Die 393015
v190815pmv1
Amount: N/A

Shipping	<div> <div> Component Description: Amount: </div> <div> Die 516019 v190724pmv1 \$9,265.75 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die 516019 v190724pmv1 \$13,020.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die 539034 v190725pmv1 \$16,031.25 </div> </div>
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	<div> <div> Component Description: Amount: </div> <div> Die 393017 v200522pmv2 \$823.20 </div> </div>
Sweep test of existing antenna	Information not provided.

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<div> Component Description: Die inv #MAN00627 Aux ant 45 pct pmt 2 UL20181214jgv1 </div> <div> Amount: \$20,216.25 </div>
	<div> Component Description: Die 571002 v190813pmv1 </div> <div> Amount: \$44,925.00 </div>
	<div> Component Description: Die inv #453008 Ant kit to combine two 8WB into one 16WB UL20190426jgv1 </div> <div> Amount: \$17,710.00 </div>
	<div> Component Description: Die 515002 v190624pmv1 </div> <div> Amount: \$1,750.00 </div>
	<div> Component Description: Die inv #MAN00225 Aux ant 45 pct pmt 1 UL20181214jgv1 </div> <div> Amount: \$20,216.25 </div>
	<div> Component Description: Die 393017 v200522pmv2 </div> <div> Amount: \$4,492.50 </div>
Shipping	<div> Component Description: Die 515002 v190624pmv1 </div> <div> Amount: \$16,031.25 </div>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.

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	\$492,150.00	\$348,115.67		\$316,750.22	
Rigid Transmission Line - copper, 7 3/16"	\$485,750.00	\$341,715.67	See attached invoices and quotes	\$310,350.22	N/A
TX Line Sweep	\$6,400.00	\$6,400.00	N/A	\$6,400.00	N/A
Auxiliary Transmission Line	\$312,430.00	\$257,934.19		\$219,986.99	
TX Line Sweep	\$6,400.00	\$6,400.00	N/A	\$6,400.00	N/A
Rigid Transmission Line - copper, 6 1/8"	\$306,030.00	\$251,534.19	See attached invoices and quotes.	\$213,586.99	N/A
Sub-total	\$804,580.00	\$606,049.86	N/A	\$536,737.21	N/A
Total for all systems	\$4,992,201.32	\$4,735,521.58	N/A	\$3,419,606.05	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 7 3/16"	Component Description: Die 866023 v200902pmv1 Amount: \$1,122.00

Component Description:	Die inv #MAN00796 Primary TLSCRs pmt 2 UL20190227jgv1
Amount:	\$5,028.75

Component Description:	Die 582031 v191030pmv1
Amount:	\$195.00

Component Description:	Myat 20041399 v190626pmv1
Amount:	\$646.15

Component Description:	Die 510010 v190725pmv1
Amount:	\$5,355.00

Component Description:	Die 512035 v190624pmv1
Amount:	\$2,998.50

Component Description:	Die 507010 v190826pmv2
Amount:	\$2,312.00

Component Description:	Die 393015 v200103pmv4
Amount:	(\$6,034.50)

Component Description:	Die 393015 v200103pmv4
Amount:	\$26,647.94

Component Description:	Die 588031 v190904pmv1
Amount:	\$18,513.00

Component Description:	Die 516019 v190724pmv1
Amount:	\$447.00

Component Description:	Die 512039 v190624pmv1
Amount:	\$3,390.82

Component Description:	Die 576001 v190823pmv1
Amount:	\$390.00

Component Description:	Die 496009 v190815pmv1
Amount:	\$1,525.00

Component Description:	KENS Die inv #MAN00713 Line 45 perc down pmt UL20181001jgv1
Amount:	\$124,944.53

Component Description:	Die 580024 v190823pmv1
Amount:	\$2,312.50

Component Description:	Weebz 019136 v190606pmv1
Amount:	\$300.00

Component Description:	Die 393015 v190815pmv1
Amount:	\$26,647.95

	Component Description:	Die inv #MAN00796 Primary line pmt 2 UL20190227jgv1
	Amount:	\$119,915.78
	Component Description:	Weebz 019135 v190606pmv1
	Amount:	\$125.00
	Component Description:	Airgas 1078395571 v190530pmv1
	Amount:	\$215.75
	Component Description:	Die 393015 v190926pmv3
	Amount:	\$26,647.95
<hr/>		
TX Line Sweep	Component Description:	Die 495008 v190815pmv1
	Amount:	\$640.00
	Component Description:	Die inv #MAN00796 Primary sweep pmt 2 UL20190227jgv1
	Amount:	\$2,880.00
	Component Description:	KENS Die inv #MAN00713 Sweep 45 perc down pmt UL20181001jgv1
	Amount:	\$2,880.00

TX Line Sweep	Component Description:		Die 530019
	Amount:		v190712pmv1 \$640.00
	Component Description:		Die inv #MAN00627
	Amount:		Aux sweep 45 pct pmt 2 UL20181214jgv1 \$2,880.00
	Component Description:		Die inv #MAN00225
	Amount:		Aux sweep 45 pct pmt 1 UL20181214jgv1 \$2,880.00
Rigid Transmission Line - copper, 6 1/8"	Component Description:		Die 393017
	Amount:		v200522pmv2 (\$5,481.00)
	Component Description:		Die inv #MAN00225
	Amount:		Aux TLSCRs 45 pct pmt 1 UL20181214jgv1 \$2,740.50
	Component Description:		Die 582031
	Amount:		v191030pmv1 \$195.00
	Component Description:		Die 576001
	Amount:		v190823pmv1 \$390.00
	Component Description:		Eagle 1380
	Amount:		v190626pmv1 \$2,000.00

Component Description:	Die 466021 v190626pmv1
Amount:	\$5,750.00

Component Description:	Die inv #MAN00627 Aux jumper 45 pct pmt 2 UL20181214jgv1
Amount:	\$3,704.40

Component Description:	Die inv #MAN00627 Aux TLSCRs 45 pct pmt 2 UL20181214jgv1
Amount:	\$2,740.50

Component Description:	Die inv #MAN00627 Aux line 45 pct pmt 2 UL20181214jgv1
Amount:	\$101,159.10

Component Description:	Die 502024 v190816pmv1
Amount:	\$1,141.00

Component Description:	Die 393017 v200506pmv1
Amount:	N/A

Component Description:	Die 487013 v190826pmv2
Amount:	\$3,898.00

Component Description:	Die 496014 v190815pmv1
Amount:	\$920.00

Component Description:	Die 481004 v190816pmv1
Amount:	\$1,141.00

Component Description:	Die 393017 v200522pmv2
Amount:	(\$30,379.20)

Component Description:	Die 491003 v190626pmv1
Amount:	\$2,206.19

Component Description:	Die 496015 v190815pmv1
Amount:	\$260.00

Component Description:	Die inv #MAN00225 Aux line 45 pct pmt 1 UL20181214jgv1
Amount:	\$101,159.10

Component Description:	Die 485015 v190826pmv2
Amount:	\$4,742.00

Component Description:	Die 481004 v190815pmv1
Amount:	\$1,141.00

Component Description:	Die 490005 v190626pmv1
Amount:	\$7,633.50

Component Description:	Die 580024 v190823pmv1
Amount:	\$2,312.50

Component Description:	Die 502024 v190815pmv1
Amount:	\$1,141.00

Component Description:	Die 496015 v190815pmv1
Amount:	\$1,650.00

Component Description:	Die inv #MAN00225 Aux jumper 45 pct pmt 1 UL20181214jgv1
Amount:	\$3,704.40

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	\$1,051,655.00	\$1,018,855.00		\$395,855.00	
Tower Helicopter Lift	\$393,255.00	\$393,255.00	See attached invoices and quotes	\$17,878.00	N/A
Helicopter Security	\$600.00	\$600.00	N/A	\$600.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$375,377.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$2,000.00	N/A
Sub-total	\$1,051,655.00	\$1,018,855.00	N/A	\$395,855.00	N/A
Total for all systems	\$4,992,201.32	\$4,735,521.58	N/A	\$3,419,606.05	N/A

Components

Actual Information	
Description	File Name

Tower Helicopter Lift	<div> Component Description: FDH SIN000562 v200128pmv1 </div> <div> Amount: \$17,878.00 </div>
Helicopter Security	<div> Component Description: D Bierman 05312019-102323 v190729jgv1 </div> <div> Amount: \$600.00 </div>
Tall Tower (greater than 500')	Information not provided.
Major tower reinforcement /modifications	<div> Component Description: FDH E-189238 v190708jgv1 </div> <div> Amount: \$37,537.70 </div> <div> Component Description: FDH E-186853 v190709jgv1 </div> <div> Amount: \$225,226.20 </div> <div> Component Description: FDH SIN000476 v200128pmv1 </div> <div> Amount: \$3,449.00 </div> <div> Component Description: FDH inv #E-177475 Antenna and line install 30 pct dp UL20181114jg v1 </div> <div> Amount: \$112,613.10 </div>

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description:	FDH inv #E-173510 Structural Analysis 50 perc final pmt UL20190102jgv2
	Amount:	\$1,000.00
	Component Description:	FDH inv #E-173409 Structural Analysis 50 perc down pmt UL20190102jgv2
	Amount:	\$1,000.00

**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
Outside Professional Services	\$393,795.00	\$411,750.00		\$110,810.11	
Other Legal Services	<i>\$10,000.00</i>	\$10,000.00	Other Legal Services related to the DTV Repack	\$424.09	N/A
Other Engineering Services	<i>\$37,500.00</i>	\$37,500.00	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 750 hrs (\$112,500.00 at \$150/hr), & a new OES component has been created & funded with the money removed from PM.	\$19,150.00	N/A

Additional Field Engineering Service, 20 Days	\$50,000.00	\$50,000.00	\$2,500 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services.	N/A	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	N/A	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	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	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	\$1,500.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$625.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	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	\$35,000.00	The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and Actual Cost invoice prep and submission by KGA.	\$39,224.00	N/A
Project management of the transition	\$118,500.00	\$112,500.00	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399s. Station does not have available personnel or personnel trained in project management for such complex projects.	\$49,887.02	N/A
Pre-Submission Site Review	\$24,000.00	\$24,000.00	N/A	N/A	N/A
Sub-total	\$393,795.00	\$411,750.00	N/A	\$110,810.11	N/A
Total for all systems	\$4,992,201.32	\$4,735,521.58	N/A	\$3,419,606.05	N/A

Components

Actual Information**Description****File Name**

Other Legal Services

Component Description: Covington 60801029
v190712jgv2**Amount:** \$144.71**Component Description:** Covington 60801032
v190529jgv2**Amount:** \$70.43**Component Description:** Covington 60801029
v190513pmv1**Amount:** \$164.44**Component Description:** Covington inv
#60796723 Various
Legal
UL20181024jgv1**Amount:** \$174.42**Component Description:** Covington 60801029
v190508pmv1**Amount:** \$164.44**Component Description:** Covington 60805585
v190508pmv1**Amount:** \$34.53**Component Description:** Covington 60801032
v190508pmv1**Amount:** \$99.68**Component Description:** Covington 60805585
v190513pmv1**Amount:** \$34.53

Other Engineering Services	Component Description: Osborn 39375 v201116pmv1 Amount: \$190.00
	Component Description: Osborn 35395 OES v191223jgv2 Amount: \$14,785.00
	Component Description: Osborn inv #29836 Proj Mgt 180526-180629 OES UL201902313jgv1 Amount: \$4,175.00
Additional Field Engineering Service, 20 Days	Information not provided.
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	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	Component Description: Osborn 33851 STA v191127jgv1 Amount: \$1,500.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Osborn 34580 v190809jgv1 Amount: \$625.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Perform engineering study for new channel assignment and antenna development	Information not provided.

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description: Osborn inv #29836 Proj Mgt 180526-180629 399 AC UL201902313jgv1 Amount: \$1,250.00	
	Component Description: Osborn 33851 PRRF v191127jgv1 Amount: \$1,125.00	
	Component Description: Osborn 33851 PRRF v191127jgv1 Amount: \$1,775.00	
	Component Description: Osborn 33851 PRRF v191127jgv1 Amount: \$4,321.00	
	Component Description: Osborn 35395 PRRF v191223jgv2 Amount: \$4,795.00	
	Component Description: Osborn 31132 PRRF v191127jgv1 Amount: \$575.00	
	Component Description: Osborn 35000 PRRF v191127jgv1 Amount: \$5,935.00	
	Component Description: Osborn 30004 PRRF v191127jgv1 Amount: \$235.00	

	Component Description:	Osborn inv #28993 Proj Mgt 180331- 180427 Amend 399 UL20190313jgv1
	Amount:	\$3,200.00
	Component Description:	Osborn 36537 V200422pmv1
	Amount:	\$770.00
	Component Description:	Osborn 32200 PRRF v191127jgv1
	Amount:	\$350.00
	Component Description:	Osborn 39375 v201116pmv1
	Amount:	\$6,290.00
	Component Description:	Osborn 35809 v200326jgv2
	Amount:	\$5,700.00
	Component Description:	Osborn 34580 v190809jgv1
	Amount:	\$2,903.00
Project management of the transition	Component Description:	Osborn 36566 V200422pmv1
	Amount:	\$553.00
	Component Description:	Osborn 32827 v190613pmv1
	Amount:	\$2,175.00

Component Description:	Osborn 33665 v190618pmv1
Amount:	\$1,725.00
Component Description:	Osborn inv #28583 Proj Mgt thru 180330 UL20190222jgv1
Amount:	\$750.00
Component Description:	Osborn 32824 v190614pmv1
Amount:	\$75.00
Component Description:	Osborn 38312 v200723pmv1
Amount:	\$366.00
Component Description:	Osborn 33851 PM v191127jgv1
Amount:	\$2,550.00
Component Description:	Osborn 33851 PM v191127jgv1
Amount:	\$150.00
Component Description:	Osborn 33851 PM v191127jgv1
Amount:	\$300.00
Component Description:	Osborn 32967 v190827pmv2
Amount:	\$1,575.00
Component Description:	Osborn 32200 PM v191127jgv1
Amount:	\$975.00

Component Description:	Osborn 31607 PM v191127jgv1
Amount:	\$525.00

Component Description:	Osborn 34580 v190809jgv1
Amount:	\$1,575.00

Component Description:	Osborn 35395 PM v191223jgv2
Amount:	\$632.00

Component Description:	Osborn 32835 v190614pmv1
Amount:	\$187.50

Component Description:	Osborn 30482 PM v200122jgv2
Amount:	\$1,575.00

Component Description:	Osborn 35809 v200326jgv2
Amount:	\$474.00

Component Description:	Osborn 39375 v201116pmv1
Amount:	\$208.00

Component Description:	Osborn 30004 PM v191127jgv1
Amount:	\$675.00

Component Description:	Osborn 30684 PM v191210jgv2
Amount:	\$300.00

Component Description:	Osborn inv #26013 Prof srvcs 170330 - 170728 UL20181107jg v1
Amount:	\$19,556.02

Component Description:	Osborn 32971 v190617pmv1
Amount:	\$112.50

Component Description:	Osborn 38578 v200716pmv1
Amount:	\$840.00

Component Description:	Osborn inv #29836 Proj Mgt 180526- 180629 UL201902313jgv1
Amount:	\$3,000.00

Component Description:	Osborn 38966 v200716pmv1
Amount:	\$237.00

Component Description:	Osborn 35000 PM v191127jgv1
Amount:	\$1,493.00

Component Description:	Inv 29209 KENS Proj Mgt 180428- 180525 UL20180702jg v1
Amount:	\$2,400.00

Component Description:	Osborn 31132 PM v191127jgv1
Amount:	\$1,350.00

	Component Description: Osborn inv #28993 Proj Mgt 180331-180427 UL20190313jgv1 Amount: \$1,725.00
	Component Description: Osborn 36537 V200422pmv1 Amount: \$79.00
	Component Description: Osborn 31788 v191114jgv1 Amount: \$1,275.00
	Component Description: Osborn 36186 PM v191209jgv1 Amount: \$474.00
Pre-Submission Site Review	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
Other Expenses	\$193,978.00	\$193,428.00		\$96,931.17	
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$17,080.58	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	\$2,194.84	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Local Zoning	<i>\$1,050.00</i>	\$1,050.00	Construction permit fee	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,750.00	N/A
Transmitter Installation	<i>\$10,217.02</i>	\$10,217.02	Transmitter Installation: This Estimated Cost is directly from the actual cost invoices / receipts	\$8,510.18	N/A
Sales Tax	<i>\$4,165.09</i>	\$4,165.09	Sales Tax	\$4,165.09	N/A
Internal Labor	<i>\$22,029.00</i>	\$22,029.00	N/A	N/A	N/A
Demolition	<i>\$1,896.54</i>	\$1,896.54	Demolition	\$1,896.54	N/A

MVPD Notification of Channel Change	\$6,000.00	\$6,000.00	Notification campaign to inform MVPD's of upcoming channel changes and testing periods.	\$3,730.00	N/A
Develop and air announcement of upcoming channel change	\$6,000.00	\$6,000.00	To produce informational spot for air	\$3,270.00	N/A
Equipment Storage	\$15,000.00	\$15,000.00	2 flatbed trailers of equipment for 6 Months.	\$11,263.59	N/A
Viewer call assistance service	\$32,745.85	\$32,745.85	N/A	\$32,745.85	N/A
Coaxial switch installation	\$8,324.50	\$8,324.50	N/A	\$8,324.50	N/A
Sub-total	\$193,978.00	\$193,428.00	N/A	\$96,931.17	N/A
Total for all systems	\$4,992,201.32	\$4,735,521.58	N/A	\$3,419,606.05	N/A

Components

Actual Information	
Description	File Name
Equipment Delivery and Handling Charges	
	Component Description: Die 866023 v200902pmv1
	Amount: \$88.63
	Component Description: Die 507010 v190826pmv2
	Amount: \$1,959.58

Component Description:	Die 502024 v190816pmv1
Amount:	\$1,061.68

Component Description:	Myat 00090198 v201119jgv1
Amount:	\$190.20

Component Description:	Die 481004 v190816pmv1
Amount:	\$1,945.89

Component Description:	Die 487013 v190826pmv2
Amount:	\$1,002.16

Component Description:	United inv #165122744-001 Forklift rental UL20190411jgv1
Amount:	\$1,455.67

Component Description:	Die 485015 v190826pmv2
Amount:	\$886.44

Component Description:	Die 496015 v190815pmv1
Amount:	\$157.63

Component Description:	Die 496014 v190815pmv1
Amount:	\$201.58

Component Description:	Die 393017 v200522pmv2
Amount:	\$8,131.12

Disposal Costs (for equipment and other waste, net of any salvage value)	<div> Component Description: Ace 0001079 v190503jgv1 </div> <div> Amount: \$783.73 </div>
	<div> Component Description: Ace inv #0000519 Dumpster rental UL20190411jgv1 </div> <div> Amount: \$621.35 </div>
	<div> Component Description: Ace 0001175 v190604pmv1 </div> <div> Amount: \$789.76 </div>
Non-zoning permits	Information not provided.
Local Zoning	Information not provided.
DTV Medical Facility Notification	<div> Component Description: RF Notifications 1127 v181029jgv1 </div> <div> Amount: \$3,750.00 </div>

Transmitter Installation	Component Description: Alterman 100535 v190510jgv1 Amount: \$5,661.89
	Component Description: Alterman 100535 v190510jgv1 Amount: \$2,648.50
	Component Description: N Tool inv #173753 Pallet jack and hand tools UL20190411jgv1 Amount: \$280.34
	Component Description: HD inv #WD51179477 Cordless tools UL20190411jgv1 Amount: \$1,187.51
	Component Description: ReadyRefresh inv #09B0127526440 Distilled water UL20190411jgv1 Amount: \$199.79
	Component Description: Amazon 64805-019999 v190611jgv2 Amount: \$238.99
Sales Tax	Component Description: Alterman 100535 v190510jgv1 Amount: \$4,165.09
Internal Labor	Information not provided.

Demolition	<p>Component Description: Alterman 100535 v190510jgv1</p> <p>Amount: \$1,896.54</p>
MVPD Notification of Channel Change	<p>Component Description: Osborn 33851 MVPD 2 v191127jgv1</p> <p>Amount: \$1,865.00</p> <p>Component Description: Osborn 33851 MVPD 1 v191127jgv1</p> <p>Amount: \$1,865.00</p>
Develop and air announcement of upcoming channel change	<p>Component Description: 2C Media inv #203806 Creation of channel change announcement UL20181016jgv1</p> <p>Amount: \$3,270.00</p>
Equipment Storage	<p>Component Description: Lockaway 13616 v190606pmv1</p> <p>Amount: \$167.78</p> <p>Component Description: Lockaway inv #6859 POD rental 190415- 190514 UL20190415jgv1</p> <p>Amount: \$167.78</p> <p>Component Description: Lockaway inv #13367 POD rental 190315-190414 UL20190411jgv1</p> <p>Amount: \$167.78</p>

	Component Description:	Die 516019 v190724pmv1
	Amount:	\$4,040.00
	Component Description:	Lockaway inv #13142 POD rental 190115-190214 UL20190411jgv1
	Amount:	\$242.47
	Component Description:	Lockaway inv #13253 POD rental 190215-190134 UL20190411jgv1
	Amount:	\$167.78
	Component Description:	Die 516019 v190724pmv1
	Amount:	\$4,290.00
	Component Description:	Die 393017 v200522pmv2
	Amount:	\$2,020.00
Viewer call assistance service	Component Description:	Inktel 33848 v190731jgv1
	Amount:	\$32,745.85
Coaxial switch installation	Component Description:	Marsand 7129 v191114jgv1
	Amount:	\$8,324.50

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,992,201.32	\$4,735,521.58	\$3,419,606.05

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

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

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

<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>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>11/20/2020</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"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<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>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>11/20/2020</p>

Attachments