



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **37176** | Service: **DTV** | Call **WLTX** | Channel: **15 (UHF)** |  
ID: | Sign:  
File **0000028040**  
Number:  
FRN: **0024376113** | Date **07/20**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>PACIFIC AND SOUTHERN, LLC</b>	Denise Branson, Sr. Paralegal TEGNA, Inc. 8350 Broad Street, Suite 2000 Tysons, VA 22102 United States	+1 (703) 873-6606	dbranson@TEGNA. com	Limited Liability Company

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Gary Davis</b> <i>Regional Head of Technology and Operations</i> <i>TEGNA</i>	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	WLTX must replace its primary antenna, transmission line and transmitter as a result of the repack. An interim facility must be built in order to operate station during the repack build-out and throughout the station's assigned phase.

**Transmitters**

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

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

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	CD3100P1
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25 kW

**Auxiliary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 kW
	Justification for New Transmitter	Existing AUX transmitter cannot be re-tuned per manufacturer. Parts are no longer available to re-tune. Existing AUX transmitter is capable of making full ERP; therefore, new ULXTE-40 AUX transmitter is reimbursable.

**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	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.
<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	100.0 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

**Auxiliary  
Transmitter**

**Other Transmitter Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Mask Filter System</b>	See attached GatesAir quote
<b>Freight</b>	Freight
<b>Change Order</b>	Change Order
<b>Installation and Proof</b>	Required to verify transmitter performance on new channel
<b>RF Accessories</b>	Required for new channel as part of the RF system

**Primary  
Transmitter**

**Existing Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<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	CD3100P1
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25 kW

**Primary Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 kW
	Justification for New Transmitter	Old transmitter cannot be re-tuned per manufacturer. Parts are no longer available to re-tune. Reimbursable TPO is 20.9 kW based on initial 90-day filing CP. This would require a ULXTE-40.

**Primary 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	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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	100.0 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**

Name	Description
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<b>Installation and Proof</b>	Required to verify transmitter performance on new channel
<b>Mask Filter System</b>	Required for new channel as part of the RF system
<b>RF Accessories</b>	Required for new channel as part of the RF system

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1000.0 kW

Manufacturer	
Model	TFU-26DSC-R
Year	2001

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**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Types</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	951.0 kW
Manufacturer		

Model	TFU-28ETT-R S260
Year	2019
Justification for New Antenna	Station's licensed horizontally polarized, top-mount, main antenna cannot be re-tuned and must be replaced for new channel assignment.

**Primary Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches

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

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Hanger Vert Spring</b>	Hanger Vert Spring
<b>Shipping</b>	\$9,800
<b>New Top Plate</b>	Existing top-plate and/or bolt pattern may not work for new top-mount antenna
<b>Antenna Mounting Flange</b>	Antenna Mounting Flange
<b>Tower Top Adapter</b>	Tower Top Adapter
<b>Reducer</b>	Reducer



**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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
<b>New Antenna Manufacturer and Type</b>	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	24
	Lower Limit	488.00 MHz
	Upper Limit	494.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	
	Model	TFU-24WB- R S230 OS
Year	2018	

Justification for New Antenna	An interim antenna is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. An interim antenna with a custom skull pattern is required to replicate existing coverage.
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**Interim Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
Shipping	\$6,800

**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?	No
	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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1700 feet per run

**Primary  
Transmission  
Line**      **New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1700 feet per run
	Justification for New Transmission Line	Current Line will not work on new channel assignment.

**Primary  
Transmission  
Line**      **Other Transmission Line Expenses Not Listed**

Name	Description
<b>TX Line Sweep</b>	Sweep required to verify post-transition channel measures well on existing line.
<b>Misc Parts</b>	Misc Parts

**Interim  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1630 feet per run
Justification for New Transmission Line	Line necessary for interim facility while new primary antenna and line are installed and throughout duration of assigned phase.	

**Interim  
Transmission  
Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
<b>TX Line Sweep</b>	Sweep required to verify post-transition channel measures well on 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?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1044489
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	34° 05' 50.0" N-
	Longitude (NAD83)	080° 45' 50.0" W-
	Overall Structure Height	1706.67 feet
	Support Structure Height	1637.78 feet
	Ground Elevation Above Mean Sea Level (AMSL)	342.19 feet



Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Pacific and Southern, LLC
Date Constructed	05/24/1985

**Primary Tower**

**Tower Modification Costs**

Section	Question	Response
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Major Reinforcements needed

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	N/A
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary Tower**

**Other Tower Expenses Not Listed**

Name	Description
Weather Day	Weather Day

**Outside Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	852
	Explanation	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x852hrs (\$127800), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased
<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	2

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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	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	
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	20

Justification	\$5,400 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.
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**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

Name	Description
<b>Other Legal Services</b>	Other Legal Services related to the DTV Repack
<b>Pre filing site review</b>	outside engineering firm to review all sites
<b>Other Engineering Services</b>	Other Engineering Services related to the DTV Repack

**Other Expenses**

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

**Other  
Expenses**

**Other Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>Internal labor</b>	Local and Corporate Labor
<b>Viewer call assistance service</b>	Viewer call assistance service
<b>Transmitter and RF Decommissioning</b>	Transmitter and RF Decommissioning

**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
<b>Primary Transmitter ULXTE-40</b>	<b>\$1,189,946.65</b>	<b>\$1,404,272.78</b>		<b>\$480,429.74</b>	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$1,161,626.13	See attached GatesAir quote and comparable MSDC IOT quote from Comark. The quotes demonstrate that the proposed solid state upgrade would be \$60,561.46 cheaper than a 1-tube MSDC.	\$371,013.27	N/A
Installation and Proof	<i>\$58,543.75</i>	\$58,543.75	See attached GatesAir quote	\$29,271.86	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
RF Accessories	<i>\$60,395.57</i>	\$60,395.57	See attached GatesAir quote	\$30,197.79	N/A
Mask Filter System	<i>\$37,721.03</i>	\$37,721.03	See attached GatesAir quote	\$18,860.52	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.	N/A	N/A
Other -- HVAC Service Type: H Size: 5 (Other)	<i>\$25,000.00</i>	\$25,000.00	Additional HVAC required for operation of new air- cooled solid- state transmitter while still operating with main transmitter during testing period.	N/A	N/A
Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	<i>\$31,086.30</i>	\$31,086.30	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. See attached quotes and invoices.	\$31,086.30	Additional electrical services required for transmitter installation, including heat exchangers, transformers cooling pumps, etc. See attached quotes and invoices.
<b>Auxiliary Transmitter ULXTE-40</b>	<b>\$1,189,838.62</b>	<b>\$1,091,695.22</b>		<b>\$954,665.16</b>	
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A



Change Order	<b><i>\$9,214.91</i></b>	\$9,214.91	Change Order - See attached / uploaded PDF file titled "Gates US0326477-US0329529 v191023jgv2.pdf"	\$9,214.91	N/A
Freight	<b><i>\$12,729.90</i></b>	\$12,729.90	Freight - See attached / uploaded PDF file titled "Gates US0326477-US0329529 v191023jgv2.pdf"	\$12,729.90	N/A
Mask Filter System	<b><i>\$37,721.03</i></b>	\$37,721.03	See attached GatesAir quote	\$37,721.03	N/A
Installation and Proof	<b><i>\$58,543.75</i></b>	\$58,543.75	See attached GatesAir quote	\$58,543.75	N/A
RF Accessories	<b><i>\$60,395.57</i></b>	\$60,395.57	See attached GatesAir quote	\$60,395.57	N/A
Other -- Building Addition Size: 100.0	<b><i>\$25,000.00</i></b>	\$25,000.00	New pad required for heat exchangers, transformers, pumps, etc. Equipment must also be shielded.	N/A	N/A

Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	<b>\$34,033.46</b>	\$34,033.46	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	\$34,033.46	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$849,156.60	See GatesAir quote Q-77003 in attached PDF file titled "Gates US0326477 v191009pmv1.pdf"	\$742,026.54	N/A
<b>Sub-total</b>	\$2,379,785.27	\$2,495,968.00	N/A	\$1,435,094.90	N/A
<b>Total for all systems</b>	\$5,174,569.61	\$5,345,315.19	N/A	\$3,693,491.98	N/A

## Components

Actual Information	
Description	File Name

UHF - Liquid Cooled Solid  
State Transmitter 21 - 31  
kW

**Component Description:**

This invoice is being  
replaced and is  
therefore no longer  
applicable.

**Amount:**

N/A

**Component Description:**

Gates inv  
#JW30004445-1A  
Primary Transmitter  
pmt 2

**Amount:**

UL20190319jgv1  
\$123,671.09

**Component Description:**

This invoice was  
originally  
erroneously applied  
to this Primary TX  
Component, and  
has now been  
applied to the Aux  
TX Component

**Amount:**

N/A

**Component Description:**

Inv JW30004445-1  
WLTX Primary  
Transmitter 1 3rd dp  
UL20180719jg v1

**Amount:**

\$247,342.18

Installation and Proof	<p><b>Component Description:</b> Inv JW30004445-1 WLTX Primary TX Install 1 3rd dp UL20180719jg v1</p> <p><b>Amount:</b> \$19,514.57</p> <p><b>Component Description:</b> Gates inv #JW30004445-1A Primary TX Install pmt 2 UL20190319jgv1</p> <p><b>Amount:</b> \$9,757.29</p>
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
RF Accessories	<p><b>Component Description:</b> Gates inv #JW30004445-1A Primary TX RF Accessories pmt 2 UL20190319jgv1</p> <p><b>Amount:</b> \$10,065.93</p> <p><b>Component Description:</b> Inv JW30004445-1 WLTX Primary TX RF Accessories 1 3rd dp UL20180719jg v1</p> <p><b>Amount:</b> \$20,131.86</p>

Mask Filter System	<p><b>Component Description:</b> Gates inv #JW30004445-1A Primary TX Mask Filter pmt 2 UL20190319jgv1</p> <p><b>Amount:</b> \$6,286.84</p> <p><b>Component Description:</b> Inv JW30004445-1 WLTX Primary TX Mask Filter 1 3rd dp UL20180719jg v1</p> <p><b>Amount:</b> \$12,573.68</p>
Other -- Building Addition Size: 100.0	Information not provided.
Other -- HVAC Service Type: H Size:5 (Other)	Information not provided.

<p>Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.</p>	<table border="0"> <tr> <td data-bbox="695 174 1007 208"><b>Component Description:</b></td> <td data-bbox="1139 174 1342 248">A and P 0106807 v190619jgv1</td> </tr> <tr> <td data-bbox="695 255 807 288"><b>Amount:</b></td> <td data-bbox="1139 255 1273 288">\$25,230.00</td> </tr> <tr> <td data-bbox="695 394 1007 427"><b>Component Description:</b></td> <td data-bbox="1139 394 1366 468">Airgas 9090294151 v191009pmv1</td> </tr> <tr> <td data-bbox="695 474 807 508"><b>Amount:</b></td> <td data-bbox="1139 474 1235 508">\$232.41</td> </tr> <tr> <td data-bbox="695 613 1007 647"><b>Component Description:</b></td> <td data-bbox="1139 613 1350 804">Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1</td> </tr> <tr> <td data-bbox="695 810 807 844"><b>Amount:</b></td> <td data-bbox="1139 810 1259 844">\$1,502.24</td> </tr> <tr> <td data-bbox="695 949 1007 983"><b>Component Description:</b></td> <td data-bbox="1139 949 1342 1023">Valley Bev 87041 v200610pmv1</td> </tr> <tr> <td data-bbox="695 1030 807 1064"><b>Amount:</b></td> <td data-bbox="1139 1030 1235 1064">\$517.16</td> </tr> <tr> <td data-bbox="695 1169 1007 1202"><b>Component Description:</b></td> <td data-bbox="1139 1169 1334 1243">Mytec 20190804 v191007pmv1</td> </tr> <tr> <td data-bbox="695 1249 807 1283"><b>Amount:</b></td> <td data-bbox="1139 1249 1235 1283">\$600.00</td> </tr> <tr> <td data-bbox="695 1388 1007 1422"><b>Component Description:</b></td> <td data-bbox="1139 1388 1358 1538">Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1</td> </tr> <tr> <td data-bbox="695 1545 807 1579"><b>Amount:</b></td> <td data-bbox="1139 1545 1259 1579">\$3,004.49</td> </tr> </table>	<b>Component Description:</b>	A and P 0106807 v190619jgv1	<b>Amount:</b>	\$25,230.00	<b>Component Description:</b>	Airgas 9090294151 v191009pmv1	<b>Amount:</b>	\$232.41	<b>Component Description:</b>	Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1	<b>Amount:</b>	\$1,502.24	<b>Component Description:</b>	Valley Bev 87041 v200610pmv1	<b>Amount:</b>	\$517.16	<b>Component Description:</b>	Mytec 20190804 v191007pmv1	<b>Amount:</b>	\$600.00	<b>Component Description:</b>	Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1	<b>Amount:</b>	\$3,004.49
<b>Component Description:</b>	A and P 0106807 v190619jgv1																								
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<b>Component Description:</b>	Airgas 9090294151 v191009pmv1																								
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<b>Component Description:</b>	Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1																								
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<b>Component Description:</b>	Mytec 20190804 v191007pmv1																								
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<b>Component Description:</b>	Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1																								
<b>Amount:</b>	\$3,004.49																								
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>																								
<p>Change Order</p>	<table border="0"> <tr> <td data-bbox="695 1832 1007 1865"><b>Component Description:</b></td> <td data-bbox="1139 1832 1374 1982">Gates US0326477- US0329529 Aux TX CO pmt 3 v191023jgv2</td> </tr> <tr> <td data-bbox="695 1989 807 2022"><b>Amount:</b></td> <td data-bbox="1139 1989 1259 2022">\$9,214.91</td> </tr> </table>	<b>Component Description:</b>	Gates US0326477- US0329529 Aux TX CO pmt 3 v191023jgv2	<b>Amount:</b>	\$9,214.91																				
<b>Component Description:</b>	Gates US0326477- US0329529 Aux TX CO pmt 3 v191023jgv2																								
<b>Amount:</b>	\$9,214.91																								

Freight	<p><b>Component Description:</b> Gates US0326477- US0329529 Aux TX freight pmt 3 v191023jgv2</p> <p><b>Amount:</b> \$12,729.90</p>
Mask Filter System	<p><b>Component Description:</b> Gates US0326477- US0329529 Aux TX mask fltr pmt 3 v191023jgv2</p> <p><b>Amount:</b> \$18,860.51</p> <p><b>Component Description:</b> Gates inv #JW30004446-1A Aux TX Mask Filter pmt 2 UL20190319jgv1</p> <p><b>Amount:</b> \$6,286.84</p> <p><b>Component Description:</b> Inv JW30004446-1 WLTX Aux TX Mask Filter 1 3rd dp UL20180719jg v1</p> <p><b>Amount:</b> \$12,573.68</p>

Installation and Proof	<p><b>Component Description:</b> Gates US0326477-US0329529 Aux TX install pmt 3 v191023jgv2</p> <p><b>Amount:</b> \$29,271.89</p> <p><b>Component Description:</b> Gates inv #JW30004446-1A Aux TX Install pmt 2 UL20190319jgv1</p> <p><b>Amount:</b> \$9,757.29</p> <p><b>Component Description:</b> Inv JW30004446-1 WLTX Aux TX Install 1 3rd dp UL20180719jg v1</p> <p><b>Amount:</b> \$19,514.57</p>
RF Accessories	<p><b>Component Description:</b> Gates US0326477-US0329529 Aux TX access pmt 3 v191023jgv2</p> <p><b>Amount:</b> \$30,197.78</p> <p><b>Component Description:</b> Gates inv #JW30004446-1A Aux TX RF Accessories pmt 2 UL20190319jgv1</p> <p><b>Amount:</b> \$10,065.93</p> <p><b>Component Description:</b> Inv JW30004446-1 WLTX Aux TX RF Accessories 1 3rd dp UL20180719jg v1</p> <p><b>Amount:</b> \$20,131.86</p>
Other -- Building Addition Size: 100.0	Information not provided.



Other Electrical Service:  
Additional electrical  
services required for  
transmitter installation,  
including heat exchangers,  
transformers, cooling  
pumps, etc.

**Component Description:** Gates US0326477-  
US0329529 Aux TX  
elec pmt 3  
v191023jgv2  
**Amount:** \$4,506.73

**Component Description:** A and P 0106997  
v200611pmv1  
**Amount:** \$25,020.00

**Component Description:** Gates inv  
#JW30004446-1A  
Aux TX Electrical  
pmt 2  
UL20190319jgv1  
**Amount:** \$1,502.24

**Component Description:** Inv JW30004446-1  
WLTX Aux TX  
Electrical 1 3rd dp  
UL20180719jg v1  
**Amount:** \$3,004.49

UHF - Liquid Cooled Solid  
State Transmitter 21 - 31  
kW

**Component Description:**

Gates inv  
#JW30004446-1A  
Aux Transmitter pmt  
2 UL20190319jgv1

**Amount:**

\$123,671.09

**Component Description:**

Gates US0326477-  
US0329529 Aux TX  
pmt 3 v191023jgv2

**Amount:**

\$371,013.27

**Component Description:**

Inv JW30004446-1  
WLTX Aux  
Transmitter 1 3rd dp  
UL20180719jg v1

**Amount:**

\$247,342.18

**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-24WB-R S230 OS</b>	<b>\$308,160.35</b>	<b>\$305,720.35</b>		<b>\$161,663.00</b>	
Shipping	<i>\$6,800.00</i>	\$6,800.00	N/A	N/A	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	Per Widelity estimate	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Per other Dielectric quotes	\$0.00	N/A

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized	<b><i>\$252,520.35</i></b>	\$252,520.35	N/A	\$150,450.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	Per Widelity estimate	\$11,213.00	N/A
<b>Primary Antenna TFU-28ETT-R S260</b>	<b><i>\$367,302.88</i></b>	<b><i>\$303,245.63</i></b>		<b><i>\$268,639.38</i></b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Per Dielectric estimate	\$6,400.00	N/A
Shipping	<b><i>\$6,400.00</i></b>	\$6,400.00	N/A	N/A	N/A
New Top Plate	<b><i>\$25,000.00</i></b>	\$25,000.00	Existing top-plate and/or bolt pattern may not work for new top-mount antenna	\$9,078.75	N/A
Hanger Vert Spring	<b><i>\$1,194.75</i></b>	\$1,194.75	N/A	(\$816.75)	N/A
Antenna Mounting Flange	<b><i>\$1,148.13</i></b>	\$1,148.13	N/A	\$1,148.13	N/A

Reducer	<i>\$3,255.00</i>	\$3,255.00	N/A	\$3,255.00	N/A
Tower Top Adapter	<i>\$20,175.00</i>	\$20,175.00	N/A	\$11,096.25	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$12,849.75	Per Dielectric quote	\$11,655.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$226,823.00	N/A	\$226,823.00	N/A
<b>Sub-total</b>	\$675,463.23	\$608,965.98	N/A	\$430,302.38	N/A
<b>Total for all systems</b>	\$5,174,569.61	\$5,345,315.19	N/A	\$3,693,491.98	N/A

## Components

Actual Information	
Description	File Name
Shipping	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized	<p data-bbox="703 293 1374 405"><b>Component Description:</b> Die 491038 Aux ant pmt 3 v190610jgv1 <b>Amount:</b> \$15,045.00</p> <p data-bbox="703 510 1326 622"><b>Component Description:</b> Die MAN01086 v190502jgv1 <b>Amount:</b> \$67,702.50</p> <p data-bbox="703 728 1374 880"><b>Component Description:</b> Die inv #MAN00844 Aux ant pmt 1 UL20190226jgv1 <b>Amount:</b> \$67,702.50</p>
Side mount brackets for high power antennas (if not included in antenna base cost)	<p data-bbox="703 1021 1374 1211"><b>Component Description:</b> Die inv #MAN00844 Aux ant mt brackets pmt 1 UL20190226jgv1 <b>Amount:</b> \$5,045.85</p> <p data-bbox="703 1317 1374 1469"><b>Component Description:</b> Die 491038 Aux ant mt brackets pmt 3 v190610jgv1 <b>Amount:</b> \$1,121.30</p> <p data-bbox="703 1574 1326 1686"><b>Component Description:</b> Die MAN01086 v190502jgv1 <b>Amount:</b> \$5,045.85</p>

Sweep test of existing antenna	<p><b>Component Description:</b> Die MAN01200 v190716pmv1</p> <p><b>Amount:</b> \$2,880.00</p> <p><b>Component Description:</b> Die MAN00948 v190503jgv1</p> <p><b>Amount:</b> \$2,880.00</p> <p><b>Component Description:</b> Die 620010 v191217pmv1</p> <p><b>Amount:</b> \$640.00</p>
Shipping	Information not provided.
New Top Plate	<p><b>Component Description:</b> Die MAN01200 v190716pmv1</p> <p><b>Amount:</b> \$9,078.75</p>
Hanger Vert Spring	<p><b>Component Description:</b> Die 568001 v190819pmv1</p> <p><b>Amount:</b> N/A</p> <p><b>Component Description:</b> Die 568001 v191217pmv3</p> <p><b>Amount:</b> (\$2,011.50)</p> <p><b>Component Description:</b> Die 568001 v191217pmv3</p> <p><b>Amount:</b> \$1,194.75</p>
Antenna Mounting Flange	<p><b>Component Description:</b> SMC 1514 v200205pmv1</p> <p><b>Amount:</b> \$1,148.13</p>

Reducer	<p><b>Component Description:</b> Die 605010 v191217pmv1</p> <p><b>Amount:</b> \$2,100.00</p> <p><b>Component Description:</b> Die 568001 v191217pmv3</p> <p><b>Amount:</b> \$1,155.00</p> <p><b>Component Description:</b> Die 568001 v190819pmv1</p> <p><b>Amount:</b> N/A</p>
Tower Top Adapter	<p><b>Component Description:</b> Die 568001 v191217pmv3</p> <p><b>Amount:</b> \$11,096.25</p> <p><b>Component Description:</b> Die 568001 v190819pmv1</p> <p><b>Amount:</b> N/A</p>



Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)

**Component Description:** Die MAN01200  
v190716pmv1  
**Amount:** \$4,819.50

**Component Description:** Die MAN01200  
v190716pmv1  
**Amount:** \$945.00

**Component Description:** Die 568001  
v191217pmv3  
**Amount:** \$2,265.75

**Component Description:** Die MAN00948  
v190503jgv1  
**Amount:** \$3,624.75

**Component Description:** Die 568001  
v190819pmv1  
**Amount:** N/A

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

**Component Description:** Die MAN00948  
v190503jgv1  
**Amount:** \$102,070.35

**Component Description:** Die 620010  
v191217pmv1  
**Amount:** \$5,760.00

**Component Description:** Die MAN01200  
v190716pmv1  
**Amount:** \$102,070.35

**Component Description:** Die 568001  
v190819pmv1  
**Amount:** N/A

**Component Description:** Die 607027  
v191217pmv1  
**Amount:** \$4,023.00

**Component Description:** Die 568001  
v191217pmv3  
**Amount:** \$12,899.30

**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
<b>Interim Transmission Line</b>	<b>\$384,560.00</b>	<b>\$258,774.60</b>		<b>\$258,774.60</b>	
Rigid Transmission Line - copper, 6 1/8" broadband	\$378,160.00	\$252,374.60	N/A	\$252,374.60	N/A
TX Line Sweep	<i>\$6,400.00</i>	\$6,400.00	N/A	\$6,400.00	N/A
<b>Primary Transmission Line</b>	<b>\$501,194.00</b>	<b>\$304,099.00</b>		<b>\$293,616.25</b>	
Misc Parts	<i>\$1,794.00</i>	\$1,794.00	N/A	\$1,794.00	N/A
Rigid Transmission Line - copper, 7 3/16"	\$493,000.00	\$295,905.00	Per Dielectric quote	\$291,822.25	N/A
TX Line Sweep	<i>\$6,400.00</i>	\$6,400.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$885,754.00</b>	<b>\$562,873.60</b>	N/A	<b>\$552,390.85</b>	N/A
<b>Total for all systems</b>	<b>\$5,174,569.61</b>	<b>\$5,345,315.19</b>	N/A	<b>\$3,693,491.98</b>	N/A

**Components**

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8" broadband	

**Component Description:** Die 491038 Aux ant  
TLSCRs pmt 3  
v190610jgv1  
**Amount:** \$812.00

**Component Description:** Die 615007  
v200406pmv1  
**Amount:** \$8,120.00

**Component Description:** Die inv #MAN00844  
Aux ant TLSCRs  
pmt 1  
UL20190226jgv1  
**Amount:** \$3,654.00

**Component Description:** Die 615007  
v200406pmv1  
**Amount:** \$5,370.00

**Component Description:** Die 591039  
v200406pmv1  
**Amount:** \$1,250.00

**Component Description:** Die MAN01086  
v190502jgv1  
**Amount:** \$103,281.57

**Component Description:** Die 491038 Aux  
line pmt 3  
v190610jgv1  
**Amount:** \$22,951.46

**Component Description:** Die MAN01086  
v190502jgv1  
**Amount:** \$3,654.00

	<p><b>Component Description:</b> Die 592018 v200406pmv1</p> <p><b>Amount:</b> N/A</p>
	<p><b>Component Description:</b> Die inv #MAN00844 Aux line pmt 1 UL20190226jgv1</p> <p><b>Amount:</b> \$103,281.57</p>
TX Line Sweep	<p><b>Component Description:</b> Die 491038 Aux ant sweep pmt 3 v190610jgv1</p> <p><b>Amount:</b> \$640.00</p>
	<p><b>Component Description:</b> Die inv #MAN00844 Aux ant sweep pmt 1 UL20190226jgv1</p> <p><b>Amount:</b> \$2,880.00</p>
	<p><b>Component Description:</b> Die MAN01086 v190502jgv1</p> <p><b>Amount:</b> \$2,880.00</p>
Misc Parts	<p><b>Component Description:</b> Die 600022 v191217pmv1</p> <p><b>Amount:</b> \$544.00</p>
	<p><b>Component Description:</b> Die 592028 v191217pmv1</p> <p><b>Amount:</b> \$1,250.00</p>

Rigid Transmission Line -  
copper, 7 3/16"

**Component Description:** Die MAN01200  
v190716pmv1  
**Amount:** \$127,808.21

**Component Description:** Die MAN01200  
v190716pmv1  
**Amount:** \$3,017.25

**Component Description:** Die 607027  
v191217pmv1  
**Amount:** \$447.00

**Component Description:** Die MAN00948  
v190503jgv1  
**Amount:** \$127,808.21

**Component Description:** Die 568001  
v191217pmv3  
**Amount:** \$27,224.33

**Component Description:** Die 568001  
v190819pmv1  
**Amount:** N/A

**Component Description:** Die MAN00948  
v190503jgv1  
**Amount:** \$3,017.25

**Component Description:** Die 568001  
v191217pmv3  
**Amount:** \$2,500.00

TX Line Sweep

Information not provided.

**Cost Information**

**Tower Equipment and Rigging Costs**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Tower TOWER</b>	<b>\$664,550.00</b>	<b>\$1,112,540.00</b>		<b>\$1,094,940.00</b>	
Tall Tower (greater than 500')	\$210,500.00	\$642,326.00	See attached / uploaded PDF files titled "FDH SIN000417 v191118jgv1.pdf", "FDH E-191656 v200205jgv1.pdf", "FDH SIN001258 v200624pmv1.pdf" and "FDH SIN005954 v200716jgv1.pdf"	\$642,326.00	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	\$7,400.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$438,464.00	See attached invoices and quotes	\$438,464.00	N/A
Weather Day	<i>\$6,750.00</i>	\$6,750.00	See attached / uploaded PDF file titled, "Turris TE-6878 1200611pmv1".	\$6,750.00	N/A

<b>Sub-total</b>	\$664,550.00	\$1,112,540.00	N/A	\$1,094,940.00	N/A
<b>Total for all systems</b>	\$5,174,569.61	\$5,345,315.19	N/A	\$3,693,491.98	N/A

## Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	<b>Component Description:</b> FDH SIN000417 v191118jgv1 <b>Amount:</b> \$49,888.00
	<b>Component Description:</b> FDH SIN005954 v200716jgv1 <b>Amount:</b> \$146,555.00
	<b>Component Description:</b> FDH SIN001258 v200624pmv1 <b>Amount:</b> \$146,555.00
	<b>Component Description:</b> FDH E-191656 v200205jgv1 <b>Amount:</b> \$299,328.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<b>Component Description:</b> Turriss inv #TE-6589 Structural Analysis UL20190402jgv1 <b>Amount:</b> \$7,400.00
	<b>Component Description:</b> Turriss TE-6723 v191004pmv1 <b>Amount:</b> \$7,900.00



Major tower reinforcement /modifications	<p><b>Component Description:</b> Turriss TE-6763 v190619jgv1</p> <p><b>Amount:</b> \$86,640.00</p>
	<p><b>Component Description:</b> FDH E-190668 v200117pmv1</p> <p><b>Amount:</b> \$149,664.00</p>
	<p><b>Component Description:</b> Turriss TE-6877 v200624pmv1</p> <p><b>Amount:</b> \$202,160.00</p>
Weather Day	<p><b>Component Description:</b> Turriss TE-6878 1200611pmv1</p> <p><b>Amount:</b> \$6,750.00</p>

**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>\$370,316.00</b>	<b>\$366,871.50</b>		<b>\$76,729.89</b>	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Per Widality estimate	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

Project management of the transition	\$134,616.00	\$127,800.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x852hrs (\$127800), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased	\$50,299.30	N/A
Other Engineering Services	<b>\$10,800.00</b>	\$10,800.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x852hrs (\$127800), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased	\$7,275.00	N/A

Prepare and or review reimbursement form	\$2,630.00	\$17,521.50	The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and ongoing Actual Cost invoice prep and submission by KGA.	\$13,356.50	N/A
Other Legal Services	<i>\$10,000.00</i>	\$10,000.00	Other Legal Services related to the DTV Repack	\$424.09	N/A
Additional Field Engineering Service, 20 Days	<i>\$50,000.00</i>	\$50,000.00	\$5,400 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	Per widelity estimate.	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Per Widelity estimate	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	\$550.00	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	\$3,500.00	Per Widely estimates	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	Per Widely estimate	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	Per Widely estimate	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Per Widely estimate	\$1,500.00	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	Per Widely estimate	\$675.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Per Widely estimate	\$2,650.00	N/A
Pre filing site review	<b>\$19,000.00</b>	\$19,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$370,316.00	\$366,871.50	N/A	\$76,729.89	N/A
<b>Total for all systems</b>	\$5,174,569.61	\$5,345,315.19	N/A	\$3,693,491.98	N/A

## Components

Actual Information	
Description	File Name
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.
Project management of the transition	<p><b>Component Description:</b> Osborn 33662A v191024jgv2</p> <p><b>Amount:</b> \$1,275.00</p> <p><b>Component Description:</b> Osborn 33664 v190618pmv1</p> <p><b>Amount:</b> \$75.00</p>

**Component Description:** Osborn 34577R PM  
v191024jgv1  
**Amount:** \$5,837.23

**Component Description:** Osborn 32964  
v190617pmv1  
**Amount:** \$1,275.00

**Component Description:** Osborn 31130  
v200220jgv1  
**Amount:** \$750.00

**Component Description:** Osborn 32197  
v200220jgv1  
**Amount:** \$525.00

**Component Description:** Osborn 35392  
v200220jgv1  
**Amount:** \$2,370.00

**Component Description:** Osborn 36183  
v200220jgv1  
**Amount:** \$6,296.00

**Component Description:** Osborn 30479  
v200220jgv1  
**Amount:** \$900.00

**Component Description:** Osborn 31602  
v200220jgv1  
**Amount:** \$225.00

**Component Description:** Osborn 33846  
v200707pmv2  
**Amount:** \$1,725.00

**Component Description:** Inv 29203 WLTX  
Proj Mgt 180428-  
180525  
UL20180716jg v2  
**Amount:** \$3,575.00

**Component Description:** Osborn 35806  
v200221jgv1  
**Amount:** \$4,155.16

**Component Description:** Osborn 32823  
v190613pmv1  
**Amount:** \$1,275.00

**Component Description:** Osborn 30001  
v200220jgv1  
**Amount:** \$750.00

**Component Description:** Osborn inv #28580  
Proj mgt thru  
180330  
UL20190326jgv1  
**Amount:** \$600.00

**Component Description:** Osborn 34997  
v200220jgv1  
**Amount:** \$3,760.63

**Component Description:** Osborn 33662  
v190618pmv1  
**Amount:** \$1,275.00

**Component Description:** Osborn 31785  
v200220jgv1  
**Amount:** \$300.00



	<p><b>Component Description:</b> Osborn inv #29768 Proj Mgt thru June 29 2018 UL20190227jgv1</p> <p><b>Amount:</b> \$3,462.80</p> <p><b>Component Description:</b> Osborn inv #28990 Proj mgt 180331- 180427 UL20190326jgv1</p> <p><b>Amount:</b> \$1,350.00</p> <p><b>Component Description:</b> Osborn inv #26022 Prof srvcs 170613 - 170728 UL20181108jg v1</p> <p><b>Amount:</b> \$13,578.11</p>
Other Engineering Services	<p><b>Component Description:</b> Osborn 38566 v200720pmv1</p> <p><b>Amount:</b> \$140.00</p> <p><b>Component Description:</b> Osborn 35806 v200221jgv1</p> <p><b>Amount:</b> \$7,135.00</p>
Prepare and or review reimbursement form	<p><b>Component Description:</b> Osborn 34577R PRRF v191024jgv1</p> <p><b>Amount:</b> \$1,728.00</p> <p><b>Component Description:</b> Osborn 38566 v200720pmv1</p> <p><b>Amount:</b> \$225.00</p>

**Component Description:** Osborn 31130  
v200220jgv1  
**Amount:** \$250.00

**Component Description:** Osborn 33858  
v200330jgv1  
**Amount:** \$848.50

**Component Description:** Osborn 34997  
v200220jgv1  
**Amount:** \$3,775.00

**Component Description:** Osborn 35806  
v200221jgv1  
**Amount:** \$1,175.00

**Component Description:** Osborn 30001  
v200220jgv1  
**Amount:** \$797.50

**Component Description:** Osborn 32197  
v200220jgv1  
**Amount:** \$300.00

**Component Description:** Osborn 32964  
v190617pmv1  
**Amount:** \$850.00

**Component Description:** Osborn 33858  
v200330jgv1  
**Amount:** \$1,087.50

**Component Description:** Osborn 35392  
v200220jgv1  
**Amount:** \$1,460.00

**Component Description:** Osborn 36183  
v200220jgv1  
**Amount:** \$1,045.00

**Component Description:** Osborn 36534  
v200220jgv1  
**Amount:** \$3,590.00

**Component Description:** Osborn 33846  
v200220jgv1  
**Amount:** N/A

**Component Description:** Osborn 33662  
v190618pmv1  
**Amount:** \$717.50

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Other Legal Services	<p><b>Component Description:</b> Covington 60801029 v190712jgv2</p> <p><b>Amount:</b> \$144.71</p> <p><b>Component Description:</b> Covington 60805585 v190513pmv1</p> <p><b>Amount:</b> \$34.53</p> <p><b>Component Description:</b> Covington 60801032 v190529jgv2</p> <p><b>Amount:</b> \$70.43</p> <p><b>Component Description:</b> Covington 60801029 v190513pmv1</p> <p><b>Amount:</b> \$164.44</p> <p><b>Component Description:</b> Covington inv #60796723 Various Legal UL20181024jgv1</p> <p><b>Amount:</b> \$174.42</p>
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	<p><b>Component Description:</b> Osborn 36183 v200220jgv1</p> <p><b>Amount:</b> \$550.00</p>

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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	<p><b>Component Description:</b> Osborn 35806 v200221jgv1</p> <p><b>Amount:</b> \$1,500.00</p>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<p><b>Component Description:</b> Osborn 35806 v200221jgv1</p> <p><b>Amount:</b> \$675.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p><b>Component Description:</b> Osborn 32197 v200220jgv1</p> <p><b>Amount:</b> \$2,650.00</p>
Pre filing 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
<b>Other Expenses</b>	<b>\$198,701.11</b>	<b>\$198,096.11</b>		<b>\$104,033.96</b>	
Transmitter and RF Decommissioning	<i>\$36,000.00</i>	\$36,000.00	See attached / uploaded PDF titled, "Q Comm QC19-194 v200624pmv1".	\$36,000.00	N/A
Viewer call assistance service	<i>\$16,743.91</i>	\$16,743.91	See attached / uploaded PDF file titled "Inktel 34005 v200610pmv1"	\$16,743.91	N/A
Internal labor	<i>\$21,791.00</i>	\$21,791.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$6,000.00</i>	\$6,000.00	Communication plan to make the MVPD's aware of upcoming changes and testing dates.	\$1,910.00	N/A
Develop and air announcement of upcoming channel change	<i>\$6,000.00</i>	\$6,000.00	40 hours at \$150 per hour to shoot, write and produce market notification spot.	\$3,270.00	N/A
Equipment Storage	<i>\$15,000.00</i>	\$15,000.00	Antenna and RF component storage	\$10,083.85	N/A

Equipment Delivery and Handling Charges	<i>\$33,076.20</i>	\$33,076.20	See attached / uploaded PDF files titled, "Die 594014 v200406pmv1", "Die 606039 v200406pmv1", "Die 609029 v200406pmv1".	\$33,076.20	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Per Widely estimate	\$2,950.00	N/A
Local Zoning	<i>\$900.00</i>	\$900.00	3 cents per hundred of value for construction permit.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
<b>Sub-total</b>	\$198,701.11	\$198,096.11	N/A	\$104,033.96	N/A
<b>Total for all systems</b>	\$5,174,569.61	\$5,345,315.19	N/A	\$3,693,491.98	N/A

## Components

Actual Information	
Description	File Name
Transmitter and RF Decommissioning	<p><b>Component Description:</b> Q Comm QC19-194 v200624pmv1</p> <p><b>Amount:</b> \$36,000.00</p>
Viewer call assistance service	<p><b>Component Description:</b> Inktel 34005 v200610pmv1</p> <p><b>Amount:</b> \$16,743.91</p>
Internal labor	Information not provided.
MVPD Notification of Channel Change	<p><b>Component Description:</b> Osborn 33846 v200707pmv2</p> <p><b>Amount:</b> \$1,910.00</p>
Develop and air announcement of upcoming channel change	<p><b>Component Description:</b> 2C Media inv #203806 Creation of channel change announcement UL20181016jgv1</p> <p><b>Amount:</b> \$3,270.00</p>
Equipment Storage	<p><b>Component Description:</b> Western Cont 1433381 v200610pmv1</p> <p><b>Amount:</b> \$398.00</p> <p><b>Component Description:</b> Western Cont 1522759 v200610pmv1</p> <p><b>Amount:</b> \$59.85</p>



**Component Description:** Western Cont  
1934760  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
1933803  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
1674862  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
2196762  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
1511591  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
2298547  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
2015801  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
2016552  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Die 609029  
v200406pmv1  
**Amount:** \$2,020.00

**Component Description:** Western Cont  
2108442  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
1675839  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
1761032  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
2107415  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
1433380  
v200616pmv1  
**Amount:** \$1,877.00

**Component Description:** Western Cont  
1846335  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
1434919  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
1593985  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
2197663  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
2299443  
v200610pmv1  
**Amount:** \$398.00

**Component Description:** Western Cont  
1845232  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
1760358  
v200610pmv1  
**Amount:** \$159.00

**Component Description:** Western Cont  
1594864  
v200610pmv1  
**Amount:** \$398.00

	<p><b>Component Description:</b> Western Cont 1510600 v200610pmv1</p> <p><b>Amount:</b> \$159.00</p>
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> Die 611037 v200107pmv2</p> <p><b>Amount:</b> \$7,590.00</p> <p><b>Component Description:</b> Die 606049 v191217pmv1</p> <p><b>Amount:</b> \$450.24</p> <p><b>Component Description:</b> Die 601019 v191217pmv1</p> <p><b>Amount:</b> \$295.06</p> <p><b>Component Description:</b> Die 609029 v200406pmv1</p> <p><b>Amount:</b> \$3,795.00</p> <p><b>Component Description:</b> Die 608014 v191217pmv1</p> <p><b>Amount:</b> \$3,511.57</p> <p><b>Component Description:</b> Die 606039 v200406pmv1</p> <p><b>Amount:</b> \$363.06</p> <p><b>Component Description:</b> Die 592018 v200505pmv2</p> <p><b>Amount:</b> \$475.11</p> <p><b>Component Description:</b> Die 610020 v191217pmv1</p> <p><b>Amount:</b> \$9,717.84</p>

	<p><b>Component Description:</b> Die 794001 v200616pmv1</p> <p><b>Amount:</b> \$4,033.23</p>
	<p><b>Component Description:</b> Die 594014 v200406pmv1</p> <p><b>Amount:</b> \$1,723.48</p>
	<p><b>Component Description:</b> Sunbelt 88321388- 0001 v191007pmv1</p> <p><b>Amount:</b> \$1,121.61</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
DTV Medical Facility Notification	<p><b>Component Description:</b> RF Notif 1190 v190924jgv1</p> <p><b>Amount:</b> \$2,950.00</p>
Local Zoning	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$5,174,569.61	\$5,345,315.19	\$3,693,491.98

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
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
	<b>Submission of Estimated Expenses Statements</b>	<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.



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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Jeffrey C  
Gehman**  
*Engineering  
Associate*

07/20/2020

Certification	Section	Question	Response
	<b>Submission of Actual Cost Documentation Statements</b>	<p>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).</p>	
		<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.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Jeffrey C  
Gehman**  
*Engineering  
Associate*

07/20/2020

## Attachments