



(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 **01/07**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
PACIFIC AND SOUTHERN, LLC	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
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		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
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	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	CD3100P1
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25 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?	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
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

Auxiliary
Transmitter

Other Transmitter Cost Not Listed

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

**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	CD3100P1
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25 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-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
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?	Yes
	Type	Heating and Cooling
	Size	5 tons
	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
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RF Accessories	Required for new channel as part of the RF system
Mask Filter System	Required for new channel as part of the RF system
Installation and Proof	Required to verify transmitter performance on new channel

Antennas

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

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	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
Existing Antenna Manufacturer and Type	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

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	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
Combiner for Shared Antenna	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
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?	
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
Hanger Vert Spring	Hanger Vert Spring
Tower Top Adapter	Tower Top Adapter
New Top Plate	Existing top-plate and/or bolt pattern may not work for new top-mount antenna
Reducer	Reducer
Shipping	\$9,800

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an 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

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
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	1700 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	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
TX Line Sweep	Sweep required to verify post-transition channel measures well on existing line.
Misc Parts	Misc Parts

Interim
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	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
TX Line Sweep	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
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?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	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
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	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
Attorney and Other Outside Consulting Services	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
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	\$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
Other Legal Services	Other Legal Services related to the DTV Repack
Pre filing site review	outside engineering firm to review all sites
Other Engineering Services	Other Engineering Services related to the DTV Repack

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	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Internal labor	Local and Corporate Labor

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-40	\$1,189,429.49	\$1,403,755.62		\$479,912.58	
Installation and Proof	<i>\$58,543.75</i>	\$58,543.75	See attached GatesAir quote	\$29,271.86	N/A
Mask Filter System	<i>\$37,721.03</i>	\$37,721.03	See attached GatesAir quote	\$18,860.52	N/A
RF Accessories	<i>\$60,395.57</i>	\$60,395.57	See attached GatesAir quote	\$30,197.79	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 Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	\$30,569.14	\$30,569.14	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. See attached quotes and invoices.	\$30,569.14	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. See attached quotes and invoices.
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Other -- HVAC Service Type: H Size: 5 (Other)	\$25,000.00	\$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

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
Auxiliary Transmitter ULXTE-40	\$1,180,805.16	\$1,082,661.76		\$929,645.16	
Freight	\$12,729.90	\$12,729.90	Freight - See attached / uploaded PDF file titled "Gates US0326477-US0329529 v191023jgv2.pdf"	\$12,729.90	N/A
Change Order	\$9,214.91	\$9,214.91	Change Order - See attached / uploaded PDF file titled "Gates US0326477-US0329529 v191023jgv2.pdf"	\$9,214.91	N/A
Mask Filter System	\$37,721.03	\$37,721.03	See attached GatesAir quote	\$37,721.03	N/A
RF Accessories	\$60,395.57	\$60,395.57	See attached GatesAir quote	\$60,395.57	N/A

Installation and Proof	\$58,543.75	\$58,543.75	See attached GatesAir quote	\$58,543.75	N/A
Other -- Building Addition Size: 100.0	\$25,000.00	\$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.	\$25,000.00	\$25,000.00	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	\$9,013.46	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 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
Sub-total	\$2,370,234.65	\$2,486,417.38	N/A	\$1,409,557.74	N/A
Total for all systems	\$5,096,300.75	\$5,072,732.23	N/A	\$2,584,502.39	N/A

Components

Actual Information Description	File Name
Installation and Proof	<div> Component Description: <div> Inv JW30004445-1 WLTX Primary TX Install 1 3rd dp UL20180719jg v1 </div> </div> <div> Amount: <div>\$19,514.57</div> </div>
	<div> Component Description: <div> Gates inv #JW30004445-1A Primary TX Install pmt 2 UL20190319jgv1 </div> </div> <div> Amount: <div>\$9,757.29</div> </div>
	<div> Component Description: <div> Gates inv #JW30004445-1A Primary TX Mask Filter pmt 2 UL20190319jgv1 </div> </div> <div> Amount: <div>\$6,286.84</div> </div>
	<div> Component Description: <div> Inv JW30004445-1 WLTX Primary TX Mask Filter 1 3rd dp UL20180719jg v1 </div> </div> <div> Amount: <div>\$12,573.68</div> </div>
Mask Filter System	<div> Component Description: <div> Gates inv #JW30004445-1A Primary TX Mask Filter pmt 2 UL20190319jgv1 </div> </div> <div> Amount: <div>\$6,286.84</div> </div>
	<div> Component Description: <div> Inv JW30004445-1 WLTX Primary TX Mask Filter 1 3rd dp UL20180719jg v1 </div> </div> <div> Amount: <div>\$12,573.68</div> </div>
	<div> Component Description: <div> Gates inv #JW30004445-1A Primary TX Mask Filter pmt 2 UL20190319jgv1 </div> </div> <div> Amount: <div>\$6,286.84</div> </div>
	<div> Component Description: <div> Inv JW30004445-1 WLTX Primary TX Mask Filter 1 3rd dp UL20180719jg v1 </div> </div> <div> Amount: <div>\$12,573.68</div> </div>

RF Accessories	<div> <div> Component Description: Inv JW30004445-1 WLTX Primary TX RF Accessories 1 3rd dp UL20180719jg v1 </div> <div> Amount: \$20,131.86 </div> </div> <div> <div> Component Description: Gates inv #JW30004445-1A Primary TX RF Accessories pmt 2 UL20190319jgv1 </div> <div> Amount: \$10,065.93 </div> </div>
Other -- Building Addition Size: 100.0	Information not provided.

<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="1139 174 1342 246">A and P 0106807 v190619jgv1</td></tr> <tr> <td data-bbox="697 255 807 288">Amount:</td><td data-bbox="1139 255 1273 288">\$25,230.00</td></tr> <tr> <td data-bbox="697 396 1007 430">Component Description:</td><td data-bbox="1139 396 1366 468">Airgas 9090294151 v191009pmv1</td></tr> <tr> <td data-bbox="697 477 807 510">Amount:</td><td data-bbox="1139 477 1235 510">\$232.41</td></tr> <tr> <td data-bbox="697 618 1007 651">Component Description:</td><td data-bbox="1139 618 1335 689">Mytec 20190804 v191007pmv1</td></tr> <tr> <td data-bbox="697 698 807 732">Amount:</td><td data-bbox="1139 698 1235 732">\$600.00</td></tr> <tr> <td data-bbox="697 840 1007 873">Component Description:</td><td data-bbox="1139 840 1358 987">Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1</td></tr> <tr> <td data-bbox="697 996 807 1030">Amount:</td><td data-bbox="1139 996 1257 1030">\$3,004.49</td></tr> <tr> <td data-bbox="697 1137 1007 1171">Component Description:</td><td data-bbox="1139 1137 1351 1323">Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1</td></tr> <tr> <td data-bbox="697 1332 807 1366">Amount:</td><td data-bbox="1139 1332 1257 1366">\$1,502.24</td></tr> </table>	Component Description:	A and P 0106807 v190619jgv1	Amount:	\$25,230.00	Component Description:	Airgas 9090294151 v191009pmv1	Amount:	\$232.41	Component Description:	Mytec 20190804 v191007pmv1	Amount:	\$600.00	Component Description:	Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1	Amount:	\$3,004.49	Component Description:	Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1	Amount:	\$1,502.24
Component Description:	A and P 0106807 v190619jgv1																				
Amount:	\$25,230.00																				
Component Description:	Airgas 9090294151 v191009pmv1																				
Amount:	\$232.41																				
Component Description:	Mytec 20190804 v191007pmv1																				
Amount:	\$600.00																				
Component Description:	Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1																				
Amount:	\$3,004.49																				
Component Description:	Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1																				
Amount:	\$1,502.24																				
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>																				
<p>Other -- HVAC Service Type: H Size:5 (Other)</p>	<p>Information not provided.</p>																				

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<div> <div>Component Description:</div> <div>Gates inv #JW30004445-1A Primary Transmitter pmt 2 UL20190319jgv1</div> </div> <div> <div>Amount:</div> <div>\$123,671.09</div> </div>
	<div> <div>Component Description:</div> <div>This invoice is being replaced and is therefore no longer applicable.</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
	<div> <div>Component Description:</div> <div>Inv JW30004445-1 WLTX Primary Transmitter 1 3rd dp UL20180719jg v1</div> </div> <div> <div>Amount:</div> <div>\$247,342.18</div> </div>
	<div> <div>Component Description:</div> <div>This invoice was originally erroneously applied to this Primary TX Component, and has now been applied to the Aux TX Component</div> </div> <div> <div>Amount:</div> <div>N/A</div> </div>
Freight	<div> <div>Component Description:</div> <div>Gates US0326477- US0329529 Aux TX freight pmt 3 v191023jgv2</div> </div> <div> <div>Amount:</div> <div>\$12,729.90</div> </div>

Change Order	<div> <div> Component Description: Gates US0326477- US0329529 Aux TX CO pmt 3 v191023jgv2 </div> <div> Amount: \$9,214.91 </div> </div>
Mask Filter System	<div> <div> Component Description: Gates US0326477- US0329529 Aux TX mask fltr pmt 3 v191023jgv2 </div> <div> Amount: \$18,860.51 </div> </div> <div> <div> Component Description: Inv JW30004446-1 WLTX Aux TX Mask Filter 1 3rd dp UL20180719jg v1 </div> <div> Amount: \$12,573.68 </div> </div> <div> <div> Component Description: Gates inv #JW30004446-1A Aux TX Mask Filter pmt 2 UL20190319jgv1 </div> <div> Amount: \$6,286.84 </div> </div>

RF Accessories	<div data-bbox="699 174 1374 365"> <p>Component Description: Gates US0326477-US0329529 Aux TX access pmt 3 v191023jgv2</p> <p>Amount: \$30,197.78</p> </div> <div data-bbox="699 477 1356 705"> <p>Component Description: Gates inv #JW30004446-1A Aux TX RF Accessories pmt 2 UL20190319jgv1</p> <p>Amount: \$10,065.93</p> </div> <div data-bbox="699 813 1382 1003"> <p>Component Description: Inv JW30004446-1 WLTX Aux TX RF Accessories 1 3rd dp UL20180719jg v1</p> <p>Amount: \$20,131.86</p> </div>
Installation and Proof	<div data-bbox="699 1144 1374 1335"> <p>Component Description: Gates US0326477-US0329529 Aux TX install pmt 3 v191023jgv2</p> <p>Amount: \$29,271.89</p> </div> <div data-bbox="699 1442 1356 1632"> <p>Component Description: Inv JW30004446-1 WLTX Aux TX Install 1 3rd dp UL20180719jg v1</p> <p>Amount: \$19,514.57</p> </div> <div data-bbox="699 1740 1374 1930"> <p>Component Description: Gates inv #JW30004446-1A Aux TX Install pmt 2 UL20190319jgv1</p> <p>Amount: \$9,757.29</p> </div>
Other -- Building Addition Size: 100.0	Information not provided.

<p>Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.</p>	<table> <tr> <td data-bbox="699 174 1007 208">Component Description:</td><td data-bbox="1141 174 1353 365">Gates inv #JW30004446-1A Aux TX Electrical pmt 2 UL20190319jgv1</td></tr> <tr> <td data-bbox="699 376 807 409">Amount:</td><td data-bbox="1141 376 1257 409">\$1,502.24</td></tr> <tr> <td data-bbox="699 517 1007 551">Component Description:</td><td data-bbox="1141 517 1374 667">Gates US0326477- US0329529 Aux TX elec pmt 3 v191023jgv2</td></tr> <tr> <td data-bbox="699 678 807 712">Amount:</td><td data-bbox="1141 678 1257 712">\$4,506.73</td></tr> <tr> <td data-bbox="699 819 1007 853">Component Description:</td><td data-bbox="1141 819 1358 969">Inv JW30004446-1 WLTX Aux TX Electrical 1 3rd dp UL20180719jg v1</td></tr> <tr> <td data-bbox="699 981 807 1014">Amount:</td><td data-bbox="1141 981 1257 1014">\$3,004.49</td></tr> </table>	Component Description:	Gates inv #JW30004446-1A Aux TX Electrical pmt 2 UL20190319jgv1	Amount:	\$1,502.24	Component Description:	Gates US0326477- US0329529 Aux TX elec pmt 3 v191023jgv2	Amount:	\$4,506.73	Component Description:	Inv JW30004446-1 WLTX Aux TX Electrical 1 3rd dp UL20180719jg v1	Amount:	\$3,004.49
Component Description:	Gates inv #JW30004446-1A Aux TX Electrical pmt 2 UL20190319jgv1												
Amount:	\$1,502.24												
Component Description:	Gates US0326477- US0329529 Aux TX elec pmt 3 v191023jgv2												
Amount:	\$4,506.73												
Component Description:	Inv JW30004446-1 WLTX Aux TX Electrical 1 3rd dp UL20180719jg v1												
Amount:	\$3,004.49												
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>												
<p>UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW</p>	<table> <tr> <td data-bbox="699 1261 1007 1294">Component Description:</td><td data-bbox="1141 1261 1374 1373">Gates US0326477- US0329529 Aux TX pmt 3 v191023jgv2</td></tr> <tr> <td data-bbox="699 1384 807 1417">Amount:</td><td data-bbox="1141 1384 1289 1417">\$371,013.27</td></tr> <tr> <td data-bbox="699 1525 1007 1559">Component Description:</td><td data-bbox="1141 1525 1374 1675">Inv JW30004446-1 WLTX Aux Transmitter 1 3rd dp UL20180719jg v1</td></tr> <tr> <td data-bbox="699 1686 807 1720">Amount:</td><td data-bbox="1141 1686 1289 1720">\$247,342.18</td></tr> <tr> <td data-bbox="699 1827 1007 1861">Component Description:</td><td data-bbox="1141 1827 1374 1977">Gates inv #JW30004446-1A Aux Transmitter pmt 2 UL20190319jgv1</td></tr> <tr> <td data-bbox="699 1989 807 2022">Amount:</td><td data-bbox="1141 1989 1289 2022">\$123,671.09</td></tr> </table>	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	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												
Component Description:	Gates inv #JW30004446-1A Aux Transmitter pmt 2 UL20190319jgv1												
Amount:	\$123,671.09												

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
Interim Antenna TFU-24WB-R S230 OS	\$308,160.35	\$305,720.35		\$161,663.00	
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
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	<i>\$252,520.35</i>	\$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
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
Primary Antenna TFU-28ETT-R S260	\$366,154.75	\$302,097.50		\$267,491.25	
Hanger Vert Spring	\$1,194.75	\$1,194.75	N/A	(\$816.75)	N/A
Shipping	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Reducer	\$3,255.00	\$3,255.00	N/A	\$3,255.00	N/A
New Top Plate	\$25,000.00	\$25,000.00	Existing top-plate and/or bolt pattern may not work for new top-mount antenna	\$9,078.75	N/A
Tower Top Adapter	\$20,175.00	\$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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Per Dielectric estimate	\$6,400.00	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
Sub-total	\$674,315.10	\$607,817.85	N/A	\$429,154.25	N/A
Total for all systems	\$5,096,300.75	\$5,072,732.23	N/A	\$2,584,502.39	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.
Sweep test of existing antenna	Information not provided.

<p>UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized</p>	<table> <tr> <td data-bbox="695 100 1101 313"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1101 100 1430 313"> <p>Die 491038 Aux ant pmt 3 v190610jgv1 \$15,045.00</p> </td></tr> <tr> <td data-bbox="695 313 1101 582"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1101 313 1430 582"> <p>Die inv #MAN00844 Aux ant pmt 1 UL20190226jgv1 \$67,702.50</p> </td></tr> <tr> <td data-bbox="695 582 1101 824"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1101 582 1430 824"> <p>Die MAN01086 v190502jgv1 \$67,702.50</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Die 491038 Aux ant pmt 3 v190610jgv1 \$15,045.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Die inv #MAN00844 Aux ant pmt 1 UL20190226jgv1 \$67,702.50</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Die MAN01086 v190502jgv1 \$67,702.50</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Die 491038 Aux ant pmt 3 v190610jgv1 \$15,045.00</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Die inv #MAN00844 Aux ant pmt 1 UL20190226jgv1 \$67,702.50</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Die MAN01086 v190502jgv1 \$67,702.50</p>						
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="695 824 1101 1093"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1101 824 1430 1093"> <p>Die 491038 Aux ant mt brackets pmt 3 v190610jgv1 \$1,121.30</p> </td></tr> <tr> <td data-bbox="695 1093 1101 1361"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1101 1093 1430 1361"> <p>Die MAN01086 v190502jgv1 \$5,045.85</p> </td></tr> <tr> <td data-bbox="695 1361 1101 1630"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1101 1361 1430 1630"> <p>Die inv #MAN00844 Aux ant mt brackets pmt 1 UL20190226jgv1 \$5,045.85</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Die 491038 Aux ant mt brackets pmt 3 v190610jgv1 \$1,121.30</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Die MAN01086 v190502jgv1 \$5,045.85</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Die inv #MAN00844 Aux ant mt brackets pmt 1 UL20190226jgv1 \$5,045.85</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Die 491038 Aux ant mt brackets pmt 3 v190610jgv1 \$1,121.30</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Die MAN01086 v190502jgv1 \$5,045.85</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Die inv #MAN00844 Aux ant mt brackets pmt 1 UL20190226jgv1 \$5,045.85</p>						
<p>Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)</p>	<p>Information not provided.</p>						

Hanger Vert Spring	Component Description: Die 568001 v191217pmv3 Amount: \$1,194.75
	Component Description: Die 568001 v191217pmv3 Amount: (\$2,011.50)
	Component Description: Die 568001 v190819pmv1 Amount: N/A
Shipping	Information not provided.
Reducer	Component Description: Die 605010 v191217pmv1 Amount: \$2,100.00
	Component Description: Die 568001 v190819pmv1 Amount: N/A
	Component Description: Die 568001 v191217pmv3 Amount: \$1,155.00
New Top Plate	Component Description: Die MAN01200 v190716pmv1 Amount: \$9,078.75

Tower Top Adapter	Component Description:	Die 568001 v191217pmv3
	Amount:	\$11,096.25
	Component Description:	Die 568001 v190819pmv1
	Amount:	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	Die MAN00948 v190503jgv1
	Amount:	\$3,624.75
	Component Description:	Die MAN01200 v190716pmv1
	Amount:	\$4,819.50
	Component Description:	Die MAN01200 v190716pmv1
	Amount:	\$945.00
	Component Description:	Die 568001 v190819pmv1
	Amount:	N/A
	Component Description:	Die 568001 v191217pmv3
	Amount:	\$2,265.75

Sweep test of existing antenna	<div> Component Description: Die MAN00948 v190503jgv1 </div> <div> Amount: \$2,880.00 </div>
	<div> Component Description: Die 620010 v191217pmv1 </div> <div> Amount: \$640.00 </div>
	<div> Component Description: Die MAN01200 v190716pmv1 </div> <div> Amount: \$2,880.00 </div>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<div> Component Description: Die MAN00948 v190503jgv1 </div> <div> Amount: \$102,070.35 </div>
	<div> Component Description: Die 620010 v191217pmv1 </div> <div> Amount: \$5,760.00 </div>
	<div> Component Description: Die 607027 v191217pmv1 </div> <div> Amount: \$4,023.00 </div>
	<div> Component Description: Die MAN01200 v190716pmv1 </div> <div> Amount: \$102,070.35 </div>
	<div> Component Description: Die 568001 v190819pmv1 </div> <div> Amount: N/A </div>
	<div> Component Description: Die 568001 v191217pmv3 </div> <div> Amount: \$12,899.30 </div>

Cost
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$384,560.00	\$249,992.00		\$244,034.60	
TX Line Sweep	<i>\$6,400.00</i>	\$6,400.00	N/A	\$6,400.00	N/A
Rigid Transmission Line - copper, 6 1/8" broadband	\$378,160.00	\$243,592.00	N/A	\$237,634.60	N/A
Primary Transmission Line	\$501,194.00	\$304,099.00		\$293,616.25	
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
Misc Parts	<i>\$1,794.00</i>	\$1,794.00	N/A	\$1,794.00	N/A
Sub-total	\$885,754.00	\$554,091.00	N/A	\$537,650.85	N/A
Total for all systems	\$5,096,300.75	\$5,072,732.23	N/A	\$2,584,502.39	N/A

Components

Actual Information	
Description	File Name

TX Line Sweep

Component Description: Die inv #MAN00844
Aux ant sweep pmt
1 UL20190226jgv1
Amount: \$2,880.00

Component Description: Die 491038 Aux ant
sweep pmt 3
v190610jgv1
Amount: \$640.00

Component Description: Die MAN01086
v190502jgv1
Amount: \$2,880.00

Rigid Transmission Line -
copper, 6 1/8" broadband

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

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

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

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

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

Component Description: Die inv #MAN00844
Aux line pmt 1
UL20190226jgv1
Amount: \$103,281.57

Rigid Transmission Line - copper, 7 3/16"	Component Description:	Die MAN00948 v190503jgv1
	Amount:	\$3,017.25
	Component Description:	Die MAN00948 v190503jgv1
	Amount:	\$127,808.21
	Component Description:	Die 607027 v191217pmv1
	Amount:	\$447.00
	Component Description:	Die MAN01200 v190716pmv1
	Amount:	\$127,808.21
TX Line Sweep	Component Description:	Die MAN01200 v190716pmv1
	Amount:	\$3,017.25
	Component Description:	Die 568001 v191217pmv3
	Amount:	\$2,500.00
	Component Description:	Die 568001 v190819pmv1
	Amount:	N/A
	Component Description:	Die 568001 v191217pmv3
	Amount:	\$27,224.33
Information not provided.		

Misc Parts

Component Description: Die 592028
v191217pmv1
Amount: \$1,250.00

Component Description: Die 600022
v191217pmv1
Amount: \$544.00

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	\$657,800.00	\$923,880.00		\$143,928.00	
Tall Tower (greater than 500')	\$210,500.00	\$498,880.00	See FDH Stainless Quote P19_T0178_001 in attached /uploaded PDF file titled "FDH SIN000417 v191118jgv1.pdf"	\$49,888.00	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	\$400,000.00	N/A	\$86,640.00	N/A
Sub-total	\$657,800.00	\$923,880.00	N/A	\$143,928.00	N/A
Total for all systems	\$5,096,300.75	\$5,072,732.23	N/A	\$2,584,502.39	N/A

Components

Actual Information	
Description	File Name

Tall Tower (greater than 500')	Component Description: FDH SIN000417 v191118jgv1 Amount: \$49,888.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description: Turris inv #TE-6589 Structural Analysis UL20190402jgv1 Amount: \$7,400.00 Component Description: Turris TE-6723 v191004pmv1 Amount: \$7,900.00
Major tower reinforcement /modifications	Component Description: Turris TE-6763 v190619jgv1 Amount: \$86,640.00

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	\$370,316.00	\$363,250.00		\$35,305.23	
Other Engineering Services	<i>\$10,800.00</i>	\$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	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	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

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 request for Special Temporary Authorization	\$7,360.00	\$3,500.00	Per Widely estimates	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	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
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Per Widely estimate	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	Per widely estimate.	N/A	N/A

Additional Field Engineering Service, 20 Days	\$50,000.00	\$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
Other Legal Services	\$10,000.00	\$10,000.00	Other Legal Services related to the DTV Repack	\$424.09	N/A
Pre filing site review	\$19,000.00	\$19,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	Per Widality estimate	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	Per Widality estimate	N/A	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	Per Widelity 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
Prepare and or review reimbursement form	\$2,630.00	\$13,900.00	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	\$2,578.00	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	\$32,303.14	N/A
Sub-total	\$370,316.00	\$363,250.00	N/A	\$35,305.23	N/A
Total for all systems	\$5,096,300.75	\$5,072,732.23	N/A	\$2,584,502.39	N/A

Components

Actual Information	
Description	File Name
Other Engineering Services	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
RF Exposure Measurements	Information not provided.
Additional Field Engineering Service, 20 Days	Information not provided.

Other Legal Services	Component Description: Covington inv #60796723 Various Legal UL20181024jgv1 Amount: \$174.42
	Component Description: Covington 60801029 v190513pmv1 Amount: \$164.44
	Component Description: Covington 60801032 v190529jgv2 Amount: \$70.43
	Component Description: Covington 60801029 v190712jgv2 Amount: \$144.71
	Component Description: Covington 60805585 v190513pmv1 Amount: \$34.53
Pre filing site review	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover 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 32964 v190617pmv1 Amount: \$850.00	
	Component Description: Osborn 34577R PRRF v191024jgv1 Amount: \$1,728.00	
	Component Description: Osborn 33662 v190618pmv1 Amount: \$717.50	
Project management of the transition	Component Description: Osborn 32964 v190617pmv1 Amount: \$1,275.00	
	Component Description: Osborn 33662A v191024jgv2 Amount: \$1,275.00	
	Component Description: Osborn 33664 v190618pmv1 Amount: \$75.00	
	Component Description: Osborn 34577R PM v191024jgv1 Amount: \$5,837.23	
	Component Description: Osborn inv #28580 Proj mgt thru 180330 UL20190326jgv1 Amount: \$600.00	

Component Description:	Osborn inv #29768 Proj Mgt thru June 29 2018 UL20190227jgv1
Amount:	\$3,462.80

Component Description:	Osborn inv #26022 Prof srvcs 170613 - 170728 UL20181108jg v1
Amount:	\$13,578.11

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

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

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

Component Description:	Osborn inv #28990 Proj mgt 180331- 180427 UL20190326jgv1
Amount:	\$1,350.00

Cost
Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$137,881.00	\$137,276.00		\$28,906.32	
Internal labor	\$21,791.00	\$21,791.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$6,000.00	\$6,000.00	Communication plan to make the MVPD's aware of upcoming changes and testing dates.	N/A	N/A
Develop and air announcement of upcoming channel change	\$6,000.00	\$6,000.00	40 hours at \$150 per hour to shoot, write and produce market notification spot.	\$3,270.00	N/A
Equipment Storage	\$15,000.00	\$15,000.00	Antenna and RF component storage	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$22,686.32	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	N/A	N/A

Local Zoning	\$900.00	\$900.00	3 cents per hundred of value for construction permit.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	Per Widely estimate	\$2,950.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	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 - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Sub-total	\$137,881.00	\$137,276.00	N/A	\$28,906.32	N/A
Total for all systems	\$5,096,300.75	\$5,072,732.23	N/A	\$2,584,502.39	N/A

Components

Actual Information	
Description	File Name
Internal labor	Information not provided.
MVPD Notification of Channel Change	Information not provided.

Develop and air announcement of upcoming channel change	<div> <div>Component Description:</div> <div>2C Media inv #203806 Creation of channel change announcement UL20181016jgv1</div> </div> <div> <div>Amount:</div> <div>\$3,270.00</div> </div>
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	<div> <div>Component Description:</div> <div>Die 610020 v191217pmv1</div> </div> <div> <div>Amount:</div> <div>\$9,717.84</div> </div> <div> <div>Component Description:</div> <div>Die 608014 v191217pmv1</div> </div> <div> <div>Amount:</div> <div>\$3,511.57</div> </div> <div> <div>Component Description:</div> <div>Die 606049 v191217pmv1</div> </div> <div> <div>Amount:</div> <div>\$450.24</div> </div> <div> <div>Component Description:</div> <div>Sunbelt 88321388-0001 v191007pmv1</div> </div> <div> <div>Amount:</div> <div>\$1,121.61</div> </div> <div> <div>Component Description:</div> <div>Die 611037 v200107pmv2</div> </div> <div> <div>Amount:</div> <div>\$7,590.00</div> </div> <div> <div>Component Description:</div> <div>Die 601019 v191217pmv1</div> </div> <div> <div>Amount:</div> <div>\$295.06</div> </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

Non-zoning permits	Information not provided.
Local Zoning	Information not provided.
DTV Medical Facility Notification	<div> <div> Component Description: </div> <div> RF Notif 1190 v190924jgv1 </div> </div> <div> <div> Amount: </div> <div> \$2,950.00 </div> </div>
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.

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

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,096,300.75	\$5,072,732.23	\$2,584,502.39

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>01/07/2020</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<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"> 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>01/07/2020</p>

Attachments