Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **13938** | Service: **DTV** | Call Sign: **WUPL** | Channel: **17 (UHF)**

File Number: **0000028057**

FRN: **0013697719** | Date Submitted: **02/18/2020**

Applicant Information

Applicant Name, Type, and Contact Information

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

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Gary Davis *Regional Head of Technology and Operations* *TEGNA Media*	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	WUPL will be transitioning to a new primary facility per their new assignment. this will include a new primary antenna, transmission line and transmitter. During this transition WUPL will need to construct an interim facility.

Transmitters

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

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	CD3200P2
	Year	2004
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 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-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38.0 kW
	Justification for New Transmitter	Station has in excess of 10% TPO headroom and is eligible for a 1-Step-Up Allowance. Reimbursable TPO is 30.7 kW based on initial 90-day filing CP. This would require a ULXTE-50. A 1-Step-Up is the ULXTE-60 and is therefore reimbursable.

Primary Transmitter

Other Transmitter Costs

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

	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold 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** Information not provided.

Antennas

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

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	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	TUD-C5SP-10/50U-2-B
Year	2004

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	Side 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)	848.0 kW
	Manufacturer	

	Model	TFU-21JSC-RC180
	Year	2019
	Justification for New Antenna	Old antenna cannot be re-tuned.

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	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Shipping	$6,800
Antenna Feed Through	Antenna Feed Through

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	8
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	220.0 kW
	Manufacturer	
	Model	TFU-8WB-R C160
	Year	2019

	Justification for New Antenna	Orig plan was to use a helicopter to remove a legacy top-mounted analog antenna, however, the antenna & bury mount are too heavy for a helicopter so a gin pole must be used and tower contractor can't complete the project by station's transition deadline

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

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Transformer 6-75 to 6-50	Transformer 6-75 to 6-50
Reducer	Reducer

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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1000 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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1060 feet per run
	Justification for New Transmission Line	Old line will not work on new channel.

Primary 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.
Misc cut pieces	Misc cut pieces

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	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	20 feet per run
	Justification for New Transmission Line	Need interim antenna and line section

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	29° 55' 13.1" N-
	Longitude (NAD83)	090° 01' 28.5" W-
	Overall Structure Height	1033.78 feet
	Support Structure Height	936.67 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1031.00 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Spectra Site Communication
Date Constructed	04/01/1987

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	Candelabra
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Name	Description

Top Plate	Moving from existing tower to WWL tower. Will share tower expenses with WWL. This will result in significant savings to FCC. Top-plate and/or bolt pattern may not work for new top-mount antenna.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	1096
	Explanation	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to $150x1096hrs ($164400),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	Yes
	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	25
Justification	$2,500 per site visit including expenses x 25 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.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Legal Services	Other Legal Services related to the DTV Repack
Other Engineering Services	Other Engineering Services related to the DTV Repack

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
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

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-60	**$1,594,575.00**	**$1,351,335.15**		**$1,303,333.15**	
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.	$1,148.00	N/A
5 Ton system	$20,250.00	$19,250.00	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.	***$71,125.00***	$71,125.00	Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	$71,125.00	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 35 - 50 kW	$1,473,000.00	$1,231,060.15	See attached / uploaded PDF file titled "Gates US0333302 v200213jgv1.pdf"	$1,231,060.15	x
Sub-total	$1,594,575.00	$1,351,335.15	N/A	$1,303,333.15	N/A
Total for all systems	$3,708,771.53	$2,763,990.32	N/A	$1,776,379.90	N/A

Components

Actual Information Description	**File Name**	
Other -- Building Addition Size: 100.0	**Component Description:** **Amount:**	Trainmax 1908022wupl01 v200218pmv1 $1,148.00
5 Ton system	Information not provided.	

Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.	**Component Description:** **Amount:**	KCES 7655 v200207pmv1 $7,112.50
	Component Description: **Amount:**	KCES 7659 v200207pmv1 $35,562.50
	Component Description: **Amount:**	KCES 7601 v200218pmv1 $24,893.75
	Component Description: **Amount:**	KCES 7550 v200207pmv1 $3,556.25
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	**Component Description:**	Gates US0331119 v200128jgv1
	Amount:	$598,754.53
	Component Description:	Inv JW30004449-1 WUPL Transmitter UL20180713jg v1
	Amount:	$372,037.06
	Component Description:	Gates US0333302 v200213jgv1
	Amount:	$74,250.03
	Component Description:	Gates inv #JW30004449-1A Transmitter pmt 2 UL20190405jgv4
	Amount:	$186,018.53

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-8WB-R C160	**$212,095.20**	**$78,758.94**		**$64,158.94**	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	$189,500.00	$57,863.74	See attached /uploaded PDF file titled "Die qte for TFU-8WB C160 interim antenna v191108jg. pdf". See attached / uploaded PDF file titled "Gates US0331509 v200217pmv1".	$57,863.74	N/A
Transformer 6-75 to 6-50	***$4,439.12***	$4,439.12	See attached /uploaded PDF file titled "Die qte for TFU-8WB C160 interim antenna v191108jg.pdf"	$4,439.12	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	$9,570.00	$8,200.00	See attached /uploaded PDF file titled "Die qte for TFU-8WB C160 interim antenna v191108jg.pdf"	N/A	N/A

Sweep test of existing antenna	$6,730.00	$6,400.00	See attached /uploaded PDF file titled "Die qte for TFU-8WB C160 interim antenna v191108jg.pdf"	N/A	N/A
Reducer	***$1,856.08***	$1,856.08	See attached /uploaded PDF file titled "Die qte for TFU-8WB C160 interim antenna v191108jg.pdf"	$1,856.08	N/A
Primary Antenna TFU-21JSC-R C180	**$219,443.83**	**$210,386.83**		**$200,051.40**	
Antenna Feed Through	***$18,656.25***	$18,656.25	N/A	$16,790.62	N/A
Shipping	***$6,800.00***	$6,800.00	N/A	$0.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$16,425.00	N/A	$16,425.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$10,298.00	N/A	$9,268.20	N/A

UHF - High Power, Side Mount, basic slot antenna, 848 kW input, directional,, elliptically or circularly polarized	***$151,807.58***	$151,807.58	See attached / uploaded PDF file titled "Die 657020 v200218pmv1".	$151,807.58	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	per Dielectric quotes	$5,760.00	N/A
Sub-total	$431,539.03	$289,145.77	N/A	$264,210.34	N/A
Total for all systems	$3,708,771.53	$2,763,990.32	N/A	$1,776,379.90	N/A

Components

Actual Information Description	File Name	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	**Component Description:** **Amount:**	Die ST666010 v200206pmv1 $1,999.16
	Component Description: **Amount:**	Die 666010 v200206pmv1 $44,925.00
	Component Description: **Amount:**	Gates US0331509 v200217pmv1 $10,939.58

Transformer 6-75 to 6-50	**Component Description:** Die ST666010 v200206pmv1 **Amount:** $189.12 **Component Description:** Die 666010 v200206pmv1 **Amount:** $4,250.00
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.
Sweep test of existing antenna	Information not provided.
Reducer	**Component Description:** Die 666010 v200206pmv1 **Amount:** $1,777.00 **Component Description:** Die ST666010 v200206pmv1 **Amount:** $79.08
Antenna Feed Through	**Component Description:** Die MAN00847 v190813jgv2 **Amount:** $8,395.31 **Component Description:** Die MAN01302 v191008pmv1 **Amount:** $8,395.31
Shipping	Information not provided.

Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	Die MAN00847 v190813jgv2 $7,391.25
	Component Description: **Amount:**	Die 657020 v200218pmv1 $1,642.50
	Component Description: **Amount:**	Die MAN01302 v191008pmv1 $7,391.25
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	Die MAN00847 v190813jgv2 $4,634.10
	Component Description: **Amount:**	Die MAN01302 v191008pmv1 $4,634.10
	Component Description: **Amount:**	Die inv #MAN00847 Elbow complex pmt 1 UL20190219jgv1 $4,634.10

UHF - High Power, Side Mount, basic slot antenna, 848 kW input, directional,, elliptically or circularly polarized	**Component Description:** **Amount:**	Die MAN00847 v190813jgv2 $63,390.60
	Component Description: **Amount:**	Die 657020 v200218pmv1 $14,086.80
	Component Description: **Amount:**	Die MAN01302 v191008pmv1 $63,390.60
	Component Description: **Amount:**	Gates US0331509 v200217pmv1 $10,939.58
Sweep test of existing antenna	**Component Description:** **Amount:**	Die MAN00847 v190813jgv2 $2,880.00
	Component Description: **Amount:**	Die MAN01302 v191008pmv1 $2,880.00
	Component Description: **Amount:**	Die inv #MAN00847 Sweep pmt 1 UL20190219jgv1 $2,880.00

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 Justificatio
Interim Transmission Line	**$1,480.00**	**$8,564.90**		**$8,564.90**	
Flexible Air Transmission Line - dielectric, 4"	$1,480.00	$8,564.90	See attached / uploaded PDF file titled "Die 666010 v200205pmv1"	$8,564.90	N/A
Primary Transmission Line	**$225,675.50**	**$147,215.50**		**$130,849.49**	
TX Line Sweep	***$6,400.00***	$6,400.00	N/A	$3,600.00	N/A
Rigid Transmission Line - copper, 6 1/8"	$214,120.00	$135,660.00	N/A	$122,094.00	N/A
Misc cut pieces	***$5,155.50***	$5,155.50	N/A	$5,155.49	N/A
Sub-total	$227,155.50	$155,780.40	N/A	$139,414.39	N/A
Total for all systems	$3,708,771.53	$2,763,990.32	N/A	$1,776,379.90	N/A

Components

Actual Information Description	File Name

Flexible Air Transmission Line - dielectric, 4"	**Component Description:** **Amount:**	Die ST666010 v200206pmv1 $364.90
	Component Description: **Amount:**	Die 666010 v200206pmv1 $8,200.00
TX Line Sweep	**Component Description:** **Amount:**	JR&A 1901339 v190916pmv1 $3,600.00
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** **Amount:**	Die MAN00847 v190813jgv2 $61,047.00
	Component Description: **Amount:**	Die MAN01302 v191008pmv1 $61,047.00
	Component Description: **Amount:**	Die inv #MAN00847 TX line pmt 1 UL20190219jgv1 $61,047.00
	Component Description: **Amount:**	Die inv #MAN00847 Fixed flange pmt 1 UL20190219jgv1 $2,319.98

Misc cut pieces	**Component Description:**	Die MAN00847 v190813jgv2
	Amount:	$2,319.97
	Component Description:	Die 657020 v200218pmv1
	Amount:	$515.55
	Component Description:	Die MAN01302 v191008pmv1
	Amount:	$2,319.97

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 GTOWER	**$880,800.00**	**$425,000.00**		**$36,500.00**	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$200,000.00	Shared expense with WWL.	$36,500.00	N/A
Top Plate	***$12,500.00***	$12,500.00	Existing top-plate and/or bolt pattern may not work for new top-mount antenna. Shared expense with WWL.	N/A	N/A
Major tower reinforcement /modifications	$421,000.00	$200,000.00	Shared expense with WWL.	N/A	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$12,500.00	Shared expense with WWL.	N/A	N/A
Sub-total	$880,800.00	$425,000.00	N/A	$36,500.00	N/A
Total for all systems	$3,708,771.53	$2,763,990.32	N/A	$1,776,379.90	N/A

Components

Actual Information Description	File Name	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	**Component Description:** **Amount:**	FDH SIN000483 v200206pmv1 $36,500.00
Top Plate	Information not provided.	
Major tower reinforcement /modifications	Information not provided.	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.	

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificat
Outside Professional Services	**$407,928.00**	**$391,750.00**		**$20,900.89**	
Other Engineering Services	***$12,150.00***	$12,150.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to $150x1096hrs ($164400),a new OES component has been created & funded with part of the $ removed from PM,& "Prepare & or review reimbursement form" has been increased	$2,162.50	N/A
Other Legal Services	***$10,000.00***	$10,000.00	Other Legal Services related to the DTV Repack	$598.47	N/A
RF Exposure Measurements	$21,050.00	$10,000.00	Shared cost with WWL-TV.	N/A	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	$7,360.00	$7,000.00	Per Widelity estimate	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	Per Widelity estimate	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	Per Widelity estimate	N/A	N/A
Prepare request for Special Temporary Authorization	$4,100.00	$3,000.00	Per Widelity estimate	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	Per Widelity estimate	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	Per Widelity 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	$13,450.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to $150x1096hrs ($164400),a new OES component has been created & funded with part of the $ removed from PM,& "Prepare & or review reimbursement form" has been increased	$5,395.00	N/A

Project management of the transition	$173,168.00	$164,400.00	Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to $150x1096hrs ($164400),a new OES component has been created & funded with part of the $ removed from PM,& "Prepare & or review reimbursement form" has been increased	$12,744.92	N/A
Additional Field Engineering Service, 25 Days	***$62,500.00***	$62,500.00	$2,500 per site visit including expenses x 25 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

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	N/A	N/A
Sub-total	$407,928.00	$391,750.00	N/A	$20,900.89	N/A
Total for all systems	$3,708,771.53	$2,763,990.32	N/A	$1,776,379.90	N/A

Components

Actual Information Description	File Name	
Other Engineering Services	**Component Description:**	Osborn inv #29840 Other Eng Srvcs UL20190326jgv1
	Amount:	$2,162.50

Other Legal Services	**Component Description:**	Covington inv #60796723 Various Legal UL20181024jgv1
	Amount:	$348.80
	Component Description:	Covington 60801032 v190530jgv2
	Amount:	$70.43
	Component Description:	Covington 60801029 v190712jgv2
	Amount:	$144.71
	Component Description:	Covington 60805585 v190513pmv1
	Amount:	$34.53
	Component Description:	Covington 60801032 v190715jgv2
	Amount:	$70.43
	Component Description:	Covington 60801029 v190513pmv1
	Amount:	$164.44
RF Exposure Measurements	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	

Attorney Fees - Negotiation of lease and other matters for shared locations	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	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:** **Amount:**	Osborn 33671 v190618pmv1 $1,162.50
	Component Description: **Amount:**	Osborn 32973 v190617pmv1 $575.00
	Component Description: **Amount:**	Osborn inv #29001 Amend 399 Form UL20190326jgv1 $3,200.00
	Component Description: **Amount:**	Osborn 34588 v190813jgv1 $457.50
Project management of the transition	**Component Description:** **Amount:**	Osborn 32838 v190613pmv1 $900.00
	Component Description: **Amount:**	Osborn 32972 v190617pmv1 $75.00
	Component Description: **Amount:**	Osborn 33671 v190618pmv1 $750.00
	Component Description: **Amount:**	Osborn inv #29001 Proj mgt 180331-180427 UL20190326jgv1 $150.00

	Component Description: Osborn inv #28591 Proj mgt thru 180330 UL20190326jgv1 **Amount:** $150.00 **Component Description:** Osborn 32973 v190617pmv1 **Amount:** $525.00 **Component Description:** Osborn inv #29840 Proj mgt 180526-180629 UL20190326jgv1 **Amount:** $1,387.50 **Component Description:** Osborn inv #26017 Prof srvcs 170607 - 170728 UL20181107jg v1 **Amount:** $7,157.42 **Component Description:** Osborn 34588 v190813jgv1 **Amount:** $1,350.00 **Component Description:** Inv 29218 WUPL Proj Mgt 180428-180525 UL20180706jg v1 **Amount:** $300.00
Additional Field Engineering Service, 25 Days	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.

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	**$166,774.00**	**$150,979.00**		**$12,021.13**	
Internal labor	***$21,744.00***	$21,744.00	N/A	N/A	N/A
MVPD Notification of Channel Change	***$6,000.00***	$6,000.00	Prepare notification for MVPD's on upcoming changes and testing windows.	N/A	N/A
Develop and air announcement of upcoming channel change	***$6,000.00***	$6,000.00	150$ for 40 hours to shoot , produce and edit informational spot	$3,270.00	N/A
Equipment Storage	***$15,000.00***	$15,000.00	2 flat bed trailer for 6 month per Dielectric rate card.	N/A	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
Local Zoning	***$900.00***	$900.00	Local construction permit a 3 cents per $100 of construction cost.	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	Per Widelity estimate	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	Per Widelity estimate	$3,275.00	N/A
AM Pattern Disturbance -- Remedy	$21,050.00	$10,000.00	Station less than 5 km from KKNO-AM, WYLD-AM, WODT-AM, WWL-AM, & KGLA-AM sites. Costs shared with WWL.	N/A	N/A
AM Pattern Disturbance -- Impact study	$7,890.00	$3,750.00	Station less than 5 km from KKNO-AM, WYLD-AM, WODT-AM, WWL-AM, & KGLA-AM sites. Costs shared with WWL.	N/A	N/A
Equipment Delivery and Handling Charges	***$25,000.00***	$25,000.00	N/A	$5,476.13	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	per Widelity estimate	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

Non-zoning permits	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Sub-total	$166,774.00	$150,979.00	N/A	$12,021.13	N/A
Total for all systems	$3,708,771.53	$2,763,990.32	N/A	$1,776,379.90	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	**Component Description:** **Amount:**	2C Media inv #203806 Creation of channel change announcement UL20181016jgv1 $3,270.00
Equipment Storage	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Local Zoning	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	RF Notifs 1355 v190926jgv1 $3,275.00
AM Pattern Disturbance -- Remedy	Information not provided.	

AM Pattern Disturbance -- Impact study	Information not provided.
Equipment Delivery and Handling Charges	**Component Description:** Die 657020 v200218pmv1 **Amount:** $5,476.13
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
Non-zoning permits	Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$3,708,771.53	$2,763,990.32	$1,776,379.90

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	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.	
	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.

	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* 02/18/2020

Certification

Section	Question	Response
Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (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).	
	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.

	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* 02/18/2020

Attachments