

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 74167 Service: DTV Call WVEC Channel:

Sign:

11 (High VHF) File **0000028089**

Number:

FRN: **0004336020** Date **02/05**

Submitted: /2020

Applicant Information

Applicant Name, Type, and Contact Information

ID:

Applicant	Address	Phone	Email	Applicant Type
WVEC TELEVISION, 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 Name and Information Reimbursement Contact 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	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	WVEC will be transitioning from channel 13 to channel 11 which requires a new primary antenna, transmitter and transmission line as well as an interim antenna and line.

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 full power 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	
Manufacturer and Type	Model	PTCD20P2I
	Year	1994
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	VAXTE-12R44
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	9.6 kW
	Justification for New Transmitter	Old transmitter cannot be retuned per manufacturers notification.

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.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	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 leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter **Other Transmitter Cost Not Listed**

Transmitter Information not provided.

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	PTCD20P2I
	Year	1994
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8 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?	No
	Manufacturer	
	Model	VAXTE-12
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	9.6 kW
	Justification for New Transmitter	Old transmitters not re-tuneble per manufacturer's notification.

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
		1

	Description	Additional electrical services required for transmitter installation.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	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 leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitte **Other Transmitter Cost Not Listed**

Transmitter Information not provided.

Antennas

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

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Full Power Backup Antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	35.0 kW
Manufacturer	
Model	TLS-V8BB-
Year	2017

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Full Power backup antenna
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	35.0 kW
	Manufacturer	

Model	TLS-V8BB-
Year	2019
Justification for New Antenna	Old antenna cannot be re-tuned

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	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?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
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 No pattern scatter analysis for a side mount high or medium power antenna?	
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Name	Description	
Reducer	Reducer	
XFMR	XFMR	
Shipping	\$5,400	
Trans Test 6-75	Trans Test 6-75	
Flex Line	Flex Line	

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Туре	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)	35.0 kW

Manufa	cturer	
Model		TCL-12A13
Year		1999

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Туре	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)	35.0 kW
	Manufacturer	
		1

Model	THV-12A11 /VP-R O4 (SP)
Year	2019
Justification for New Antenna	Station's licensed circularly polarized, top-mount, main antenna cannot be re-tuned and must be replaced for new channel assignment.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	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?	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

Other Antenna Cost Not Listed

Name	Description
Shipping	\$6,800
Misc Antenna Items	Misc Antenna Items: Items 3 and 5-8 on attached Dielectric Quote 800056CMZ-3
New Top Plate	Existing top-plate and/or bolt pattern may not work for new top-mount antenna

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

Primary Transmission

Add Transmission Line

Line Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Туре	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1300 feet per run

Primary Transmissio

Other Transmission Line Expenses Not Listed

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

Auxiliary Transmission

Add Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Used for maintenand a and primary facility repair
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	Dielectric
Line Manufacturer and Type	Туре	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	1250 feet per run

Auxiliary Transmis

Other Transmission Line Expenses Not Listed

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

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	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	Do you have a tower registration number?	Yes
Registration	ASR Number	1043102
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 49' 00.0" N-
	Longitude (NAD83)	076° 28' 05.0" W-
	Overall Structure Height	1225.05 feet
	Support Structure Height	1095.79 feet
	Ground Elevation Above Mean Sea Level (AMSL)	23.95 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WVEC TELEVISION INC
Date Constructed	06/24/1999

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	750
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399s. Station does not have available personnel or personnel trained in project management for such complex projects.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	20
Justification	\$2,500 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services.

Outside Professional

Other Professional Services Expenses Not Listed

Services Costs	Description
Pre filing site review	Outside engineering firm to review all sites before filling.
Other Engineering Services	Fewer Proj Mgt "PM" tasks are req'd & Other Engineering Services "OES" are req'd, so the PM total was reduced to 750 hrs (\$112,500.00 at \$150/hr), a new OES comp was created & funded with \$ from PM. See attachment titled "KGA quote to WVEC for OES.pdf"
Other Legal Services	Other Legal 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 Costs

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 VAXTE-12	\$386,700.00	\$406,381.40		\$278,484.34	
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 is required for operation of new air- cooled solid-state transmitter while still operating with main air-cooled transmitter during testing period.	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	\$331,500.00	\$351,481.40	Per Gates AIR Quote. Includes TAX	\$278,484.34	N/A

Other Electrical Service: Additional electrical services required for transmitter installation.	\$25,000.00	\$25,000.00	Additional electrical services required for transmitter installation.	N/A	N/A
Auxiliary Transmitter VAXTE- 12R44	\$386,700.00	\$406,381.40		\$254,971.68	
Other HVAC Service Type: H Size:5 (Other)	\$25,000.00	\$25,000.00	Additional HVAC is required for operation of new air- cooled solid-state transmitter while still operating with main air-cooled transmitter during testing period.	N/A	N/A
Other Electrical Service: Additional electrical services required for transmitter installation.	\$25,000.00	\$25,000.00	Additional electrical services required for transmitter installation.	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A

High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	\$331,500.00	\$351,481.40	Per Gates Air quote. Includes TAX	\$254,971.68	N/A
Sub-total	\$773,400.00	\$812,762.80	N/A	\$533,456.02	N/A
Total for all systems	\$2,573,262.00	\$2,549,322.80	N/A	\$1,266,361.61	N/A

Components

Actual Information Description	File Name	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Other HVAC Service Type: H Size:5 (Other)	Information not provided.	
High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	Component Description: Amount:	Gates US0331558 v191126jgv1 \$134,112.94
	Component Description: Amount:	Gates inv #JW30004556-1 Primary Transmitter 50 pct pmt 1 UL20181207jgv1 \$144,371.40
Other Electrical Service: Additional electrical services required for transmitter installation.	Information not provided.	
Other HVAC Service Type: H Size:5 (Other)	Information not provided.	

Other Electrical Service: Additional electrical services required for transmitter installation.	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
High VHF - Air Cooled Solid State Transmitter 6.5 . 12.5 kW	Component Description:	Gates US0331557 v191126jgv1
	Amount:	\$110,600.28
	Component Description:	Gates inv #JW30004555-1 Aux Transmitter 50 pct pmt 1
	Amount:	UL20181207jgv1 \$144,371.40

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna THV-12A11 /VP-R O4 (SP)	\$446,908.00	\$445,978.00		\$369,157.40	
Misc Antenna Items	\$22,078.00	\$22,078.00	Misc Antenna Items: Items 3 and 5-8 on attached Dielectric Quote 800056CMZ- 3	\$19,870.20	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	\$20,871.00	N/A
Shipping	\$6,800.00	\$6,800.00	N/A	N/A	N/A
High VHF - High Power Top Mount One Station elliptically or circularly polarized	\$374,000.00	\$374,000.00	Per Widelity Estimate	\$313,388.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	\$9,268.20	N/A
Auxiliary Antenna TLS-V8BB- R	\$129,636.00	\$116,469.00		\$99,962.10	
Flex Line	\$6,700.00	\$6,700.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$6,030.00	N/A
Trans Test 6-75	\$2,118.00	\$2,118.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$1,906.20	N/A
Shipping	\$5,400.00	\$5,400.00	N/A	N/A	N/A
XFMR	\$1,858.00	\$1,858.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$1,672.20	N/A
Reducer	\$1,330.00	\$1,330.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$1,197.00	N/A

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$10,313.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$9,281.70	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$5,760.00	N/A
High VHF - High Power Side Mount One Station horizontally polarized	\$82,350.00	\$82,350.00	See attached PDF titled "Die MAN01456 v191007jgv1. pdf"	\$74,115.00	N/A
Sub-total	\$576,544.00	\$562,447.00	N/A	\$469,119.50	N/A
Total for all systems	\$2,573,262.00	\$2,549,322.80	N/A	\$1,266,361.61	N/A

Components

Actual Information Description	File Name	
Misc Antenna Items		
	Component Description:	Die MAN00916 Reducer 45 pct pmt 1 v190531jgv1
	Amount:	\$598.50

Component Description: Die MAN00916 TL

Flg 45 pct pmt 1 v190531jgv1

Amount: \$773.55

Component Description: Die MAN00916

Xfrmr 45 pct pmt 1

v190531jgv1

Amount: \$836.10

Component Description: Die MAN00916

Test Transition 45

pct pmt 1 v190531jgv1

Amount: \$953.10

Component Description: Die MAN00916

Feed-thru 45 pct pmt 1 v190531jgv1

Amount: \$6,773.85

Component Description: Die MAN01198

v190809pmv1

Amount: \$773.55

Component Description: Die MAN01198

v190809pmv1

Amount: \$6,773.85

Component Description: Die MAN01198

v190809pmv1

Amount: \$598.50

Component Description: Die MAN01198

v190809pmv1

Amount: \$836.10

	Component Description: Amount:	Die MAN01198 v190809pmv1 \$953.10
New Top Plate		
	Component Description:	Die MAN00916 Top Plate 45 pct
	Amount:	pmt 1 v190531jgv1 \$10,435.50
	Component Description:	Die MAN01198
	Amount:	v190809pmv1 \$10,435.50
Shipping	Information not provided.	
High VHF - High Power Top Mount One Station		
elliptically or circularly polarized	Component Description:	Die MAN00916 Antenna 45 pct
polalizeu	Amount:	pmt 1 v190531jgv1 \$141,024.60
	Component Description:	Die MAN01198
		v190809pmv1
	Amount:	\$141,024.60
	Component Description:	Die 533002
	Amount:	v190809pmv1 \$31,338.80

Sweep test of existing		
antenna	Component Description:	Die MAN00916
		Sweep 45 pct pmt
		1 v190531jgv1
	Amount:	\$2,880.00
	Component Description:	Die MAN01198
		v190809pmv1
	Amount:	\$2,880.00
Elbow complex, single		
channel, at antenna input,	Component Description:	Die MAN00916
per 6 1/8. feedline (if		Elbow complex 45
needed)		pct pmt 1
		v190531jgv1
	Amount:	\$4,634.10
	Component Description:	Die MAN01198
	Component Description.	v190809pmv1
	Amount:	\$4,634.10
Flex Line		
	Component Description:	Die MAN01456
		Aux ant flex line 45
		pct pmt 1
		v191007jgv1
	Amount:	\$3,015.00
	Component Description	Die MAN01543
	Component Description:	v200204pmv1
	Amount:	\$3,015.00
	Amount.	φ3,013.00

Trans Test 6-75		
	Component Description:	Die MAN01456
		Aux ant trans test
		45 pct pmt 1
	Amount:	v191007jgv1 \$953.10
	Amount	ψ933.10
	Component Description:	Die MAN01543
		v200204pmv1
	Amount:	\$953.10
Shipping	Information not provided.	
XFMR		
	Component Description:	Die MAN01456
		Aux ant XFMR 45
		pct pmt 1
	Amount:	v191007jgv1 \$836.10
	Component Description:	Die MAN01543
		v200204pmv1
	Amount:	\$836.10
Reducer		
	Component Description:	Die MAN01456
		Aux ant reducer 45
		pct pmt 1 v191007jgv1
	Amount:	\$598.50
		4 000.00
	Component Description:	Die MAN01543
		v200204pmv1
	Amount:	\$598.50

Side mount brackets for nigh power antennas (if not ncluded in antenna base cost)	Component Description:	Die MAN01456 Aux ant side mt bkts 45 pct pmt 1
	Amount:	v191007jgv1 \$4,640.85
	Component Description:	Die MAN01543 v200204pmv1
	Amount:	\$4,640.85
Sweep test of existing		
antenna	Component Description:	Die MAN01456 Aux ant sweep 45
		pct pmt 1 v191007jgv1
	Amount:	\$2,880.00
	Component Description:	Die MAN01543
		v200204pmv1
	Amount:	\$2,880.00
High VHF - High Power		
Side Mount One Station horizontally polarized	Component Description:	Die MAN01456 Aux ant 45 pct pmt
		1 v191007jgv1
	Amount:	\$37,057.50
	Component Description:	Die MAN01543
		v200204pmv1
	Amount:	\$37,057.50

Transmission Line

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

Description Primary Transmission Line	Predetermined Cost Estimate \$6,400.00	Estimated Cost \$6,400.00	Estimated Cost Justification	Actual Cost \$1,990.98	Actual Cost Justification
TX Line Sweep	\$6,400.00	\$6,400.00	Sweep required to verify post-transition channel measures well on existing line.	\$1,990.98	N/A
Auxiliary Transmission Line	\$6,400.00	\$6,400.00		\$1,990.98	
TX Line Sweep	\$6,400.00	\$6,400.00	Sweep required to verify post-transition channel measures well on existing line.	\$1,990.98	N/A
Sub-total	\$12,800.00	\$12,800.00	N/A	\$3,981.96	N/A
Total for all systems	\$2,573,262.00	\$2,549,322.80	N/A	\$1,266,361.61	N/A

Actual Information	
Description	File Name

TX Line Sweep		
	Component Description:	Modern inv #2098
		Line sweep Main
		UL20181221jgv1
	Amount:	\$1,990.98
TX Line Sweep		
	Component Description:	Modern inv #2098
		Line sweep Aux
		UL20181221jgv1
	Amount:	\$1,990.98

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	\$625,000.00		\$216,815.00	
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	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$216,815.00	N/A
Sub-total	\$657,800.00	\$625,000.00	N/A	\$216,815.00	N/A
Total for all systems	\$2,573,262.00	\$2,549,322.80	N/A	\$1,266,361.61	N/A

Actual Information Description	File Name
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.

Tall Tower (greater than 500')	Information not provided.	
Major tower reinforcement /modifications	Component Description:	TCI 8751-A
		v191015pmv1
	Amount:	\$216,815.00

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
Outside Professional Services	\$385,610.00	\$371,250.00		\$39,719.13	
Other Legal Services	\$10,000.00	\$10,000.00	Other Legal Services related to the DTV Repack	\$424.09	N/A
Other Engineering Services	\$37,500.00	\$37,500.00	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 750 hrs (\$112,500.00 at \$150/hr), & a new OES category has been created & funded with the money removed from PM.	\$700.00	N/A

Additional Field Engineering	\$50,000.00	\$50,000.00	\$2,500 per site visit including	N/A	I
Service, 20			expenses x 20		
Days			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.		
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	
Attorney Fees - Negotiation of lease and other matters for	\$4,210.00	\$4,000.00	N/A	N/A	
shared					
locations					
Attorney Fees -	\$2,365.00	\$2,250.00	N/A	N/A	
Prepare and					
File FCC Form					
2100 (main),					
License to					
Cover					
Application					

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,650.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$14,200.00	Fewer PM tasks are needed & 399 work is needed, so the PM total has been reduced to \$150x672hrs (\$100800), & "Prepare & or review reimbursement form" has been increased with part of the \$ removed from PM	\$8,730.00	N/
Pre filing site review	\$19,500.00	\$19,500.00	N/A	N/A	N/
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Per Widelity estimate	N/A	N/
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/
Project management of the transition	\$118,500.00	\$100,800.00	N/A	\$27,215.04	N
Sub-total	\$385,610.00	\$371,250.00	N/A	\$39,719.13	N
Total for all systems	\$2,573,262.00	\$2,549,322.80	N/A	\$1,266,361.61	N/

Actual Information Description	File Name	
Other Legal Services	Component Description: Amount:	Covington 60805585 v190513pmv1 \$34.53
	Component Description:	Covington 60801032 v190715jgv2
	Amount: Component Description:	\$70.43 Covington
	Amount:	60801029 v190712jgv2 \$144.71
	Component Description:	Covington 60801032
	Amount:	v190530jgv2 \$70.43
	Component Description:	Covington 60801029 v190513pmv1
	Amount:	\$164.44
	Component Description:	Covington inv #60796723 Various Legal
	Amount:	UL20181024jgv1 \$174.42

Other Engineering Services	Component Description:	Osborn inv #29769 Engineering Srvcs UL20181126jg v1
	Amount:	\$700.00
Additional Field Engineering Service, 20 Days	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	Component Description: Amount:	Osborn 32201 v200203jgv1 \$2,650.00

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 33666 v190618pmv1
	Amount:	\$612.50
	Component Description:	Osborn 36187 v200203jgv1
	Amount:	\$100.00
	Component Description:	Osborn 30000 v200203jgv1
	Amount:	\$297.50
	Component Description:	Osborn 34581 v190810jgv1
	Amount:	\$1,107.50
	Component Description:	Osborn 35396 v200203jgv1
	Amount:	\$495.00
	Component Description:	Osborn 31608
	Amount:	v200203jgv1 \$250.00
	Component Description:	Osborn 35810
		v200203jgv1

v200203jgv1

Amount: \$272.50

Component Description: Osborn 32201

v200203jgv1

Amount: \$1,175.00

Component Description: Osborn inv #28994

Amend 399 Form UL20190326jgv1

Amount: \$3,200.00

Component Description: Osborn 35001

v200203jgv1

Amount: \$530.00

Pre filing site review Information not provided.

RF Exposure Information not provided.

Comprehensive coverage Information not provided.

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase

verification via field study,

Measurements

if needed

Information not provided.

Project management of the transition

Component Description: Osborn 32968

v190617pmv1

Amount: \$525.00

Component Description: Osborn 33666

v190618pmv1

Amount: \$825.00

v200203jgv1 \$450.00

Amount: \$450.

Osborn 31789

v200203jgv1

Amount:

Component Description:

\$300.00

Component Description:

Osborn 34581 v190810jgv1

Amount:

\$525.00

Component Description:

Osborn 35396

Amount:

Amount:

v200203jgv1 \$869.00

Component Description:

Osborn 36187 v200203jgv1

\$445.00

Component Description:

Osborn 30685

Amount:

v200203jgv1 \$825.00

Component Description:

Osborn 31608

Amount:

v200203jgv1 \$450.00

Component Description:

Osborn 30483 v200203jgv1

Amount:

\$525.00

Component Description:

Osborn 35810 v200203jgv1

Amount:

\$1,077.00

v200203jgv1 \$450.00

Amount: \$450.0

Component Description: Osborn 32828

v190613pmv1

Amount: \$525.00

Component Description: Inv 29210 WVEC

Proj Mgt 180428-

180525

UL20180706jg v1

Amount: \$1,275.00

Component Description: Osborn inv #29769

Prof srvcs 180526 -

170629

UL20181126jg v1

Amount: \$1,575.00

Component Description: Osborn inv #26016

Prof srvcs 170530 -

170728

UL20181107jg v1

Amount: \$14,408.54

Component Description: Osborn 32201

v200203jgv1

Amount: \$75.00

Component Description: Osborn inv #28994

Proj mgt 180331-

180427

UL20190326jgv1

Amount: \$150.00

v200203jgv1

Amount: \$853.00

Component Description: Osborn inv #29769

Form 387 2018 Q2

UL20181126jg v1

Amount: \$337.50

Component Description: Osborn inv #28584

Proj mgt thru

180330

UL20190326jgv1

Amount: \$450.00

Component Description: Osborn 32201

v200203jgv1

Amount: \$300.00

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
Other Expenses	\$167,108.00	\$165,063.00		\$3,270.00	
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	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	\$750.00	\$750.00	3 cents per hundred on construction for permit.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A

AM Pattern Disturbance Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
AM Pattern Disturbance Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A
Internal labor	\$22,228.00	\$22,228.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$6,000.00	\$6,000.00	promotional campaign for MVPD notification	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, produce and edit local informational spot.	\$3,270.00	N/A
Equipment Storage	\$15,000.00	\$15,000.00	2 flat bed trailer storage for 6 months per Dielectric.	N/A	N/A
Non-zoning permits	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$167,108.00	\$165,063.00	N/A	\$3,270.00	N/A
Total for all systems	\$2,573,262.00	\$2,549,322.80	N/A	\$1,266,361.61	N/A

Actual Information Description	File Name
Equipment Delivery and Handling Charges	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.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	Information not provided.	
AM Pattern Disturbance Remedy	Information not provided.	
AM Pattern Disturbance Impact study	Information not provided.	
Internal labor	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Component Description:	2C Media inv #203806 Creation of channel change announcement
	Amount:	UL20181016jgv1 \$3,270.00
Equipment Storage	Information not provided.	
Non-zoning permits	Information not provided.	

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,573,262.00	\$2,549,322.80	\$1,266,361.61

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

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 abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

02/05/2020

Attachments