



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **14050** | Service: **DTV** | Call **WCCT-TV** | Channel: **33 (UHF)** |
ID:
File **0000028238**
Number:
FRN: **0028358455** | Date **03/05**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
TEGNA BROADCAST HOLDINGS, LLC	Denise A. Branson, Sr. Paralegal 8350 BROAD STREET SUITE 2000 TYSONS, VA 22102 United States	+1 (703) 873- 6606	DBRANSON@TEGNA. COM	Limited Liability Company

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Bill Vanduynehoven , Vanduynehov . <i>Director of Engineering operations Tribune broadcasting</i>	Bill Vanduynehoven 2211 Rabbit Hill Cir Dacula, GA 30019 United States	+1 (404) 312- 8693	BillV@Tribunemedia. 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	Replace antenna and replace shared Transmission line with new transmission line. Replace transmitter

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	Auxiliary
	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	Ultimate 8K8
	Year	2010
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	6 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	ULXTE-10
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	6.2 kW
	Justification for New Transmitter	Current transmitter is not supported or re- tunable as stated by the manufacturer

**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	No
	Size	N/A
	Length	N/A

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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCX-2
	Year	2000
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 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-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	18 kW
	Justification for New Transmitter	Current transmitter can not be re-tuned as stated by Manufacturer

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	100.0 feet
	Other Electrical Service	No

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

**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?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Elliptical
	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)	50.0 kW

Manufacturer	
Model	TFU-10JTH /VP-R O4
Year	2008

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	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)	70.0 kW
	Manufacturer	

Model	TFU-11JTH /VP-R 04
Year	2019
Justification for New Antenna	Current antenna will not work on assigned frequency

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**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?	Yes
	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	3
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	665.00 MHz
	Design power capacity in use	95.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	500.0 kW
	Manufacturer	
	Model	TFU -WB16
	Year	2019

	Justification for New Antenna	Temporary antenna to use during construction and transition.
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Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
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?	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

Enter a list of RF channel numbers.

RF Channel Number

20

31

**Interim
Antenna**

Other Antenna Cost Not Listed

Name	Description
Combiner connection	Interim antenna combiner connection and mounting
Lease Cost	Tower lease cost for adding temporary antenna per station

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?	Yes
	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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1375 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
14050	WCCT-TV
147	WTIC-TV

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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1420 feet per run

	Justification for New Transmission Line	Current shared line is not supported and will not work on new channel. Also tower will not support heavier line. With the new channel assignments WCCT and WTIC cannot share a transmission line.
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Primary Transmission Line **Other Transmission Line Expenses Not Listed**
Information not provided.

Interim **New Transmission Line**
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	1200 feet per run
	Justification for New Transmission Line	Transmission line for temporary operation Will be installed by WTIC.

Interim **Other Transmission Line Expenses Not Listed**
Transmission Line

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?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 42' 13.0" N-
	Longitude (NAD83)	072° 49' 55.0" W-
	Overall Structure Height	1338.89 feet
	Support Structure Height	1291.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	709.97 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	COMMUNICATIONS SITE MANAGEMENT, LLC
	Date Constructed	09/01/1984

**FM, AM or TV radio
broadcasters. Facility ID's,
Call Signs and Services of
other broadcast stations with
whom the tower is shared**

Facility ID	Call Sign	Service
66465	WTIC-FM	FM
1910	WRCH	FM
1900	WZMX	FM
147	WTIC-TV	DTV
13602	WEDH	DTV

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

Primary Tower

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Name		Description
Additional Insurance		Insurance increase required by Site owner
Weather delays		Delays in construction due to weather

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	100
	Explanation	Landlord management of project
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	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A

	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	10
	Justification	Intermodulation study

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

Services provided.

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	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	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 Information not provided.
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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-30	\$739,200.00	\$692,500.00		\$453,849.79	
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$640,000.00	N/A	\$453,849.79	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,500.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
Auxiliary Transmitter ULXTE-10	\$298,500.00	\$255,000.00		\$192,769.85	
Other Electrical Service: Electrical Install	\$25,000.00	\$25,000.00	N/A	\$23,342.00	N/A

UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$230,000.00	N/A	\$169,427.85	N/A
Sub-total	\$1,037,700.00	\$947,500.00	N/A	\$646,619.64	N/A
Total for all systems	\$2,901,459.66	\$2,141,954.66	N/A	\$1,597,956.20	N/A

Components

Actual Information	
Description	File Name

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description: Site Survey Amount: \$5,630.57
	Component Description: Gates US0327106 v200227pmv1 Amount: \$652.62
	Component Description: Deposit for Primary Transmitter ULXTE-30 Amount: \$140,620.08
	Component Description: Second payment for ULXTE-30 Amount: \$144,690.99
	Component Description: Gates GO10004877-Install v200226pmv1 Amount: \$29,286.40
	Component Description: 3rd Payment ULXTE-30 Amount: \$132,969.13
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
Service entrance 3 phase /800 amp/208 volt	Information not provided.

Other Electrical Service: Electrical Install	<div> Component Description: D'Amato 09965 v200226pmv1 </div> <div> Amount: \$23,342.00 </div>
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<div> Component Description: 2nd payment for ULXTE-10 </div> <div> Amount: \$55,911.19 </div> <div> Component Description: Deposit for Aux Antenna ULXTE-10 </div> <div> Amount: \$56,821.65 </div> <div> Component Description: 3rd payment ULXTE-10 </div> <div> Amount: \$31,901.01 </div> <div> Component Description: Gates GO10004878- Install v200225pmv1 </div> <div> Amount: \$24,794.00 </div>

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 -WB16	\$176,630.00	\$72,000.00		\$0.00	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$0.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 500 kW input, directional,, horizontally polarized	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Lease Cost	<i>\$65,000.00</i>	\$65,000.00	N/A	\$0.00	N/A
Combiner connection	<i>\$7,000.00</i>	\$7,000.00	N/A	N/A	N/A

Primary Antenna TFU-11JTH /VP-R 04	\$305,800.00	\$163,700.00		\$157,636.50	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$147,000.00	N/A	\$140,939.00	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$10,300.00	See Invoicing	\$10,297.50	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Sub-total	\$482,430.00	\$235,700.00	N/A	\$157,636.50	N/A
Total for all systems	\$2,901,459.66	\$2,141,954.66	N/A	\$1,597,956.20	N/A

Components

Actual Information	
Description	File Name
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
Sweep test of existing antenna	Information not provided.

UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 500 kW input, directional,, horizontally polarized	Information not provided.	
Lease Cost	Component Description: Amount:	one time lease cost \$65,000.00
Combiner connection	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Die 461033 v200225pmv2 \$1,672.50
	Component Description: Amount:	freight charges \$2,189.00
	Component Description: Amount:	Die 449034 v200226pmv1 \$10,875.00
	Component Description: Amount:	Die 449034 v200226pmv1 \$1,327.50
	Component Description: Amount:	deposit - INPUT COMPLEX 4-50 EHT \$7,526.25
	Component Description: Amount:	INPUT COMPLEX 4-50 EHT \$7,526.25

	Component Description:	deposit - VPOL Components
	Amount:	\$5,973.75
	Component Description:	ANT TFU- 11JTH /VP-R 04 (SP) CH 33
	Amount:	\$48,937.50
	Component Description:	deposit ANT TFU- 11JTH/VP-R 04 (SP) CH 33
	Amount:	\$48,937.50
	Component Description:	VPOL Components
	Amount:	\$5,973.75
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Component Description:	Die 461033 v200225pmv2
	Amount:	\$1,029.75
	Component Description:	Die 449034 v200226pmv1
	Amount:	\$0.01
	Component Description:	elbow complex
	Amount:	\$4,633.87
	Component Description:	deposit - elbow complex
	Amount:	\$4,633.87

Sweep test of existing antenna		
	Component Description:	Die 580030
		v200226pmv1
	Amount:	\$640.00
	Component Description:	Eng on site
	Amount:	\$2,880.00
	Component Description:	deposit - Eng on site
	Amount:	\$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 Justification
Interim Transmission Line	\$278,400.00	\$0.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8" broadband	\$278,400.00	\$0.00	N/A	N/A	N/A
Primary Transmission Line	\$286,840.00	\$205,000.00		\$181,595.40	
Rigid Transmission Line - copper, 6 1/8"	\$286,840.00	\$205,000.00	N/A	\$181,595.40	N/A
Sub-total	\$565,240.00	\$205,000.00	N/A	\$181,595.40	N/A
Total for all systems	\$2,901,459.66	\$2,141,954.66	N/A	\$1,597,956.20	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8" broadband	Information not provided.

Rigid Transmission Line -
copper, 6 1/8"

Component Description: TLSCR's
Amount: \$1,718.50

Component Description: Die 366003
v200305pmv2
Amount: \$14,854.06

Component Description: Die 449034
v200226pmv1
Amount: (\$4,639.96)

Component Description: 6-1-8" 75 OHM -
1443 FT
Amount: \$82,511.42

Component Description: T/L 6-75 EIA
LENGTH 15' TO
20' FIXED FLG 1
END/ SWIVEL
FLG 1
Amount: \$2,319.98

Component Description: deposit - 6-1-8" 75
OHM - 1443 FT
Amount: \$82,511.42

Component Description: deposit - T/L 6-75
EIA LENGTH 15'
TO 20' FIXED FLG
1 END/ SWIVEL
FLG 1
Amount: \$2,319.98

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	\$660,600.00	\$612,800.00		\$591,150.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$531,800.00	As quoted by Vendor. Includes Helicopter lift	\$531,600.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$0.00	Included in tower quote	N/A	N/A
Additional Insurance	\$19,000.00	\$19,000.00	Included in tower quote	\$18,150.00	N/A
Tower Helicopter Lift	\$0.00	\$0.00	Included in Tower quote	N/A	N/A
Weather delays	\$50,000.00	\$50,000.00	Actual costs	\$41,400.00	N/A
Sub-total	\$660,600.00	\$612,800.00	N/A	\$591,150.00	N/A
Total for all systems	\$2,901,459.66	\$2,141,954.66	N/A	\$1,597,956.20	N/A

Components

Actual Information	
Description	File Name
Structural engineering tower load study for well documented tower	Information not provided.

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Amount:	In progress during field installation \$104,360.00
	Component Description: Amount:	Mobilization payment \$52,180.00
	Component Description: Amount:	Down payment for rigging \$130,450.00
	Component Description: Amount:	Plumb and Tension \$9,800.00
	Component Description: Amount:	Completion and Acceptance \$52,180.00
	Component Description: Amount:	Mobilization of Tower Crew \$52,180.00
	Component Description: Amount:	In progress - Antenna installation \$52,180.00
	Component Description: Amount:	Materials ready to ship \$78,270.00
Minor tower reinforcement /modifications	Information not provided.	

Additional Insurance	Component Description:	Insurance increase
	Amount:	\$18,150.00
Tower Helicopter Lift	Information not provided.	
Weather delays	Component Description:	Weather days
	Amount:	\$14,375.00
	Component Description:	Weather days
	Amount:	\$2,875.00
	Component Description:	Weather days
	Amount:	\$5,175.00
	Component Description:	Weather days
	Amount:	\$18,975.00
	Component Description:	Weather days
	Amount:	\$4,600.00

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	\$58,045.00	\$45,500.00		\$0.00	
Additional Field Engineering Service, 10 Days	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$11,000.00	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	N/A	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Project management of the transition	\$15,800.00	\$15,000.00	N/A	N/A	N/A
Sub-total	\$58,045.00	\$45,500.00	N/A	\$0.00	N/A
Total for all systems	\$2,901,459.66	\$2,141,954.66	N/A	\$1,597,956.20	N/A

Components

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	\$97,444.66	\$95,454.66		\$20,954.66	
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$20,954.66</i>	\$20,954.66	See attached / uploaded PDF file titled, "Gates US0327106 v200227pmv1.pdf".	\$20,954.66	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$11,000.00</i>	\$11,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A
AM Pattern Disturbance -- Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A

Sub-total	\$97,444.66	\$95,454.66	N/A	\$20,954.66	N/A
Total for all systems	\$2,901,459.66	\$2,141,954.66	N/A	\$1,597,956.20	N/A

Components

Actual Information	
Description	File Name
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	<p>Component Description: Gates US0326509 v200225pmv1</p> <p>Amount: \$5,400.00</p> <p>Component Description: Gates US0327106 v200227pmv1</p> <p>Amount: \$15,554.66</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
DTV Medical Facility Notification	Information not provided.
MVPD Notification of Channel Change	Information not provided.
AM Pattern Disturbance -- Impact study	Information not provided.
AM Pattern Disturbance -- Remedy	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,901,459.66	\$2,141,954.66	\$1,597,956.20

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>03/05/2020</p>

Attachments