



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **73319** | Service: **DTV** | Call **WQAD-TV** | Channel: **31 (UHF)** |  
ID:  
File **0000028252** | Sign:  
Number:  
FRN: **0028358455** | Date **02/10**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>TEGNA Broadcast Holdings, LLC</b>	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 Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

**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.	Yes
Briefly describe transition plan	Replace Antenna and Transmission line Replace transmitter Install Interim antenna to operate on during construction

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	SigmaCD- P2
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47 kW
	Justification for New Transmitter	Current transmitter has be state not Re-Tunable by the manufacturer. ULXTE-72 Non Epole equivalent for reimbursement.

**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	300.0 feet
	Other Electrical Service	No

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

**Primary  
Transmitter**

**Other Transmitter Cost Not Listed**

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

Manufacturer	
Model	TFU-30GTH
Year	2003



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?	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	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) .....	868.0 kW
	Manufacturer	

Model	TFU-31JTH /VP-R 06
Year	2020
Justification for New Antenna	Current antenna will not operate on assigned channel

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	700.00 MHz
	Design power capacity in use	90.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	200.0 kW
	Manufacturer	
	Model	TFU-WB16
	Year	2020

	Justification for New Antenna	Temporary operation during tower work
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	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
Tower Rental	American Tower rental of tower space for antenna

**Transmission Line**

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

**Primary**  
**Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	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	1100 feet per run

Primary  
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1100 feet per run
	Justification for New Transmission Line	Current line section length is not compatible with assigned channel

Primary  
Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.



**Interim**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1080 feet per run
	Justification for New Transmission Line	Transmission line to connect to interim antenna

**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?	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?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1225582
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	41° 18' 44.5" N-
	Longitude (NAD83)	090° 22' 46.2" W-
	Overall Structure Height	1096.12 feet
	Support Structure Height	1096.12 feet
	Ground Elevation Above Mean Sea Level (AMSL)	752.94 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC.
Date Constructed	08/30/2001

**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
81946	WMWC-TV	DTV
73319	WQAD-TV	DTV
6885	KWQC-TV	DTV
54011	KLJB	DTV
5471	KQIN	DTV
5468	WQPT-TV	DTV

**Primary  
Tower**

**Tower Modification Costs**

Section	Question	Response
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Minor 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
Interim Install	Separate trip for Interim system install
Obtain building permits from local zoning authorities	Obtain building permits from local zoning authorities
Pedestal	Replace current pedestal to support new antenna
Structural engineering tower load study for a documented tower with candelabra	Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment.
Weather Day	Weather Day
Capital Contribution to Am Twr	Capital Contribution to Am Twr
Tower Permit Drawing Package	Tower Permit Drawing Package

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	300
	Explanation	Landlord Management of project
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	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
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

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

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	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

<b>Other Expenses</b>	<b>Other Expenses Not Listed</b> 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
<b>Primary Transmitter ULXTE-72</b>	<b>\$1,533,400.00</b>	<b>\$1,357,500.00</b>		<b>\$1,225,089.71</b>	
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,300,000.00	N/A	\$1,225,089.71	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$7,800.00	\$7,500.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$1,533,400.00</b>	<b>\$1,357,500.00</b>	<b>N/A</b>	<b>\$1,225,089.71</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$3,785,308.75</b>	<b>\$3,680,932.06</b>	<b>N/A</b>	<b>\$2,463,592.25</b>	<b>N/A</b>

### Components

Actual Information Description	File Name
Service entrance 3 phase /800 amp/208 volt	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<table> <tr> <td data-bbox="719 181 1023 210"><b>Component Description:</b></td><td data-bbox="1158 181 1378 248">2nd payment for ULXTE-72</td></tr> <tr> <td data-bbox="719 259 826 288"><b>Amount:</b></td><td data-bbox="1158 259 1305 288">\$381,531.67</td></tr> <tr> <td data-bbox="719 400 1023 430"><b>Component Description:</b></td><td data-bbox="1158 400 1378 468">Gates US0333447 v200131jgv1</td></tr> <tr> <td data-bbox="719 479 826 508"><b>Amount:</b></td><td data-bbox="1158 479 1294 508">\$86,685.83</td></tr> <tr> <td data-bbox="719 620 1023 649"><b>Component Description:</b></td><td data-bbox="1158 620 1378 687">Gates US0331041 v191129jgv1</td></tr> <tr> <td data-bbox="719 698 826 728"><b>Amount:</b></td><td data-bbox="1158 698 1305 728">\$378,897.69</td></tr> <tr> <td data-bbox="719 840 1023 869"><b>Component Description:</b></td><td data-bbox="1158 840 1378 869">ULXTE-72 Deposit</td></tr> <tr> <td data-bbox="719 880 826 909"><b>Amount:</b></td><td data-bbox="1158 880 1305 909">\$377,974.52</td></tr> </table>	<b>Component Description:</b>	2nd payment for ULXTE-72	<b>Amount:</b>	\$381,531.67	<b>Component Description:</b>	Gates US0333447 v200131jgv1	<b>Amount:</b>	\$86,685.83	<b>Component Description:</b>	Gates US0331041 v191129jgv1	<b>Amount:</b>	\$378,897.69	<b>Component Description:</b>	ULXTE-72 Deposit	<b>Amount:</b>	\$377,974.52
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<b>Component Description:</b>	ULXTE-72 Deposit																
<b>Amount:</b>	\$377,974.52																
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.																
Switchgear - industrial 800 amp	Information not provided.																

**Cost  
Information**

**Antennas**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TFU-WB16</b>	<b>\$234,930.00</b>	<b>\$156,518.31</b>		<b>\$112,610.81</b>	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$15,118.31	See attached / uploaded PDF files titled "Die 666044 v200210pmv1.pdf" and "Die ST666044 v200210pmv1.pdf"	\$15,118.31	N/A
Tower Rental	<i>\$25,000.00</i>	\$25,000.00	Tower interim antenna space rental	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$110,000.00	N/A	\$91,732.50	N/A
<b>Primary Antenna TFU-31JTH /VP-R 06</b>	<b>\$310,130.00</b>	<b>\$269,400.00</b>		<b>\$105,120.45</b>	

Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$250,000.00	N/A	\$96,668.10	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$13,000.00	N/A	\$5,572.35	N/A
<b>Sub-total</b>	\$545,060.00	\$425,918.31	N/A	\$217,731.26	N/A
<b>Total for all systems</b>	\$3,785,308.75	\$3,680,932.06	N/A	\$2,463,592.25	N/A

## Components

Actual Information	
Description	File Name
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	<p><b>Component Description:</b> Die ST666044 v200210pmv1</p> <p><b>Amount:</b> \$889.31</p> <p><b>Component Description:</b> Die 666044 v200210pmv1</p> <p><b>Amount:</b> \$14,229.00</p>
Tower Rental	Information not provided.

Sweep test of existing antenna	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 2nd payment Sweep Test \$2,880.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 1st payment Sweep test \$2,880.00 </div> </div>
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 2nd payment TFU-16WB-R \$45,866.25 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 1st payment TFU-16WB-R \$45,866.25 </div> </div>
Sweep test of existing antenna	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 1st payment Sweep Test \$2,880.00 </div> </div>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 1st payment TFU-31JTH/VP-R \$96,668.10 </div> </div>
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> 1st payment Elbow Complex \$5,572.35 </div> </div>

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$250,560.00	\$210,000.00		\$141,822.90	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$250,560.00	\$210,000.00	N/A	\$141,822.90	N/A
Primary Transmission Line	\$319,000.00	\$240,000.00		\$99,613.46	
Rigid Transmission Line - copper, 7 3 /16"	\$319,000.00	\$240,000.00	N/A	\$99,613.46	N/A
Sub-total	\$569,560.00	\$450,000.00	N/A	\$241,436.36	N/A
Total for all systems	\$3,785,308.75	\$3,680,932.06	N/A	\$2,463,592.25	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line - copper, 6 1/8" broadband	<b>Component Description:</b>		2nd payment
	<b>Amount:</b>		RTLSCR's
			\$2,485.69
	<b>Component Description:</b>		2nd payment
	<b>Amount:</b>		transmission line
			\$68,425.76
	<b>Component Description:</b>		1st payment
	<b>Amount:</b>		RTLSCR's
Rigid Transmission Line - copper, 7 3/16"			\$2,485.69
	<b>Component Description:</b>		1st payment
	<b>Amount:</b>		transmission line
			\$68,425.76
	<b>Component Description:</b>		1st payment
	<b>Amount:</b>		Transmission Line
			\$94,919.96
	<b>Component Description:</b>		1st payment
	<b>Amount:</b>		RTLSCR's
			\$4,693.50

## Cost Information

### Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Tower</b>	<b>\$981,093.75</b>	<b>\$1,306,013.75</b>		<b>\$761,745.00</b>	
<b>GTOWER</b>					
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$24,800.00	N/A	\$24,800.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$0.00	N/A	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$905,420.00	Complete quote for services including modifications and new pedestal	\$452,710.00	N/A
Obtain building permits from local zoning authorities	<i>\$1,000.00</i>	\$1,000.00	See attached / uploaded PDF file titled "Am Twr 370433 v200130jgv1.pdf"	\$1,000.00	N/A
Pedestal	<i>\$0.00</i>	\$0.00	Included in Quote	N/A	N/A



Capital Contribution to Am Twr	<b>\$5,000.00</b>	\$5,000.00	See attached /uploaded PDF file titled "Am Twr 460220503 v191129jgv1. pdf"	\$5,000.00	N/A
Interim Install	<b>\$339,380.00</b>	\$339,380.00	N/A	\$254,535.00	N/A
Structural engineering tower load study for a documented tower with candelabra	<b>\$19,000.00</b>	\$19,000.00	N/A	\$19,000.00	N/A
Tower Permit Drawing Package	<b>\$4,700.00</b>	\$4,700.00	See attached / uploaded PDF file titled "Am Twr 370433 v200130jgv1. pdf"	\$4,700.00	N/A
Weather Day	<b>\$6,713.75</b>	\$6,713.75	See attached / uploaded PDF file titled "TCI 8980 v200208pmv1"	N/A	N/A
<b>Sub-total</b>	\$981,093.75	\$1,306,013.75	N/A	\$761,745.00	N/A
<b>Total for all systems</b>	\$3,785,308.75	\$3,680,932.06	N/A	\$2,463,592.25	N/A

## Components

Actual Information	
Description	File Name
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<b>Component Description:</b> Tower Mapping <b>Amount:</b> \$24,800.00
Minor tower reinforcement /modifications	Information not provided.

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<b>Component Description:</b> installation top mount deposit <b>Amount:</b> \$452,710.00
Obtain building permits from local zoning authorities	<b>Component Description:</b> Am Twr 370433 v200130jgv1 <b>Amount:</b> \$1,000.00
Pedestal	Information not provided.
Capital Contribution to Am Twr	<b>Component Description:</b> Am Twr 460220503 v191129jgv1 <b>Amount:</b> \$5,000.00
Interim Install	<b>Component Description:</b> down payment for Int. <b>Amount:</b> \$169,690.00  <b>Component Description:</b> TCI 8961 v200208pmv1 <b>Amount:</b> \$84,845.00
Structural engineering tower load study for a documented tower with candelabra	<b>Component Description:</b> Structural reporting <b>Amount:</b> \$19,000.00
Tower Permit Drawing Package	<b>Component Description:</b> Am Twr 370433 v200130jgv1 <b>Amount:</b> \$4,700.00
Weather Day	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 Cost Justification
<b>Outside Professional Services</b>	<b>\$84,645.00</b>	<b>\$70,500.00</b>		<b>\$9,480.00</b>	
RF Exposure Measurements	\$21,050.00	\$11,000.00	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
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

Project management of the transition	\$47,400.00	\$45,000.00	N/A	\$9,480.00	N/A
<b>Sub-total</b>	\$84,645.00	\$70,500.00	N/A	\$9,480.00	N/A
<b>Total for all systems</b>	\$3,785,308.75	\$3,680,932.06	N/A	\$2,463,592.25	N/A

## Components

Actual Information	
Description	File Name
RF Exposure Measurements	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.
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Project management of the transition	<p><b>Component Description:</b> Am Twr 370433 v200130jgv1</p> <p><b>Amount:</b> \$9,480.00</p>

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	\$71,550.00	\$71,000.00		\$8,109.92	
MVPD Notification of Channel Change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Storage	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$5,159.92	N/A
Local Zoning	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,950.00	N/A
Sub-total	\$71,550.00	\$71,000.00	N/A	\$8,109.92	N/A
Total for all systems	\$3,785,308.75	\$3,680,932.06	N/A	\$2,463,592.25	N/A

Components

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

Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> Die 667010 v200210pmv1</p> <p><b>Amount:</b> \$5,159.92</p>
Local Zoning	Information not provided.
DTV Medical Facility Notification	<p><b>Component Description:</b> MEDICAL TESTING</p> <p><b>Amount:</b> \$2,950.00</p>

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$3,785,308.75	\$3,680,932.06
			\$2,463,592.25

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

Certification	Section	Question	Response
	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"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	



4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<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><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>02/10/2020</p>

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 IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>02/10/2020</p>

## Attachments