



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **146** | Service: **DTV** | Call **WXIN** | Channel: **22 (UHF)** |  
ID: | Sign:  
File **0000028154**  
Number:  
FRN: **0005047105** | Date **03/12**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>TRIBUNE BROADCASTING INDIANAPOLIS, LLC</b>	Steve Zanolini 6910 NETWORK PLACE INDIANAPOLIS, IN 46278 United States	+1 (317) 687-5666	szanolini@tribunemedia.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
<b>Bill Vanduyndhoven , Vnduyndhov .</b> <i>Director of Engineering operations</i> <i>Tribune broadcasting</i>	Bill Vanduyndhoven 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.	Yes
Briefly describe transition plan	Replace Antenna Line and Combiner Replace transmitters

## 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	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	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	Axcera
	Model	Innovator HX HU5000BD
	Year	2010

	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	5 kW

**Auxiliary  
Transmitter**

**Retuning Transmitter Costs**

Section	Question	Response
<b>New IOT Tubes</b>	Number of Tubes (including accessories) needed	N/A
<b>New Mask Filter</b>	Power	10 kW
	Other Power	N/A
<b>New Exciter</b>	Is a new exciter needed?	Yes
	Exciter Type	Single frequency agile

**Auxiliary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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	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

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**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	DCX-2
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38 kW
	Justification for New Transmitter	Current transmitter is not re-tunable as stated by the 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	200.0 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?	Yes
	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	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	12
	Design power capacity in use	90.0 %
	Lower Limit	470.00 MHz
	Upper Limit	659.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1500.0 kW

	Manufacturer	
	Model	TUM20-04-12/48H-1-R-T
	Year	2005

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

Facility ID	Call Sign
56526	WTTK

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?	Yes
	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	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	20
	Lower Limit	470.00 MHz
	Upper Limit	525.00 MHz
	Design power capacity in use	80.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1500.0 kW
	Manufacturer	

Model	TUM20-04-12/48H-1-R-T
Year	2019
Justification for New Antenna	Current Antenna will not work on the new assigned channels for WXIN and WTTK

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	8 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
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**Enter a list of RF channel numbers.**

RF Channel Number
15
22

**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?	Yes
	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	2
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	660.00 MHz
	Design power capacity in use	80.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	900.0 kW
	Manufacturer	
	Model	TFU-WB16
	Year	2019

	Justification for New Antenna	Antenna to operate on during construction and transition for 2 stations.
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## Interim 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?	S
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<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

## Interim Antenna

### Other Antenna Cost Not Listed

Information not provided.

**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?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1100 feet per run

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

Facility ID	Call Sign
56526	WTTK

**Primary** **New Transmission Line**  
**Transmission Line** **Section**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	8 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 section length will not work with assigned channels

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line** **Information not provided.**

Interim  
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	800 feet per run
	Justification for New Transmission Line	Transmission line to feed interim antenna for 2 stations

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	Owned
	Is this tower consider Complex?	No
	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?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1030684
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	39° 53' 20.0" N-
	Longitude (NAD83)	086° 12' 07.0" W-
	Overall Structure Height	1040.01 feet
	Support Structure Height	979.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	810.03 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Tribune Broadcasting Indianapolis, LLC
	Date Constructed	01/01/1984

**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
56526	WTTK	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	N/A
Helicopter Services Required	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**  
Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
<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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	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 Professional Services Costs**      **Other Professional Services Expenses Not Listed**

If wireless is not 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	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
<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?	No
	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-60</b>	<b>\$1,530,800.00</b>	<b>\$1,275,000.00</b>		<b>\$852,310.81</b>	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,220,000.00	N/A	\$852,310.81	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	N/A
<b>Auxiliary Transmitter Innovator HX HU5000BD</b>	<b>\$134,560.00</b>	<b>\$42,000.00</b>		<b>\$0.00</b>	
UHF and VHF - minor banding issues	\$105,200.00	\$15,000.00	N/A	N/A	N/A
10 kW mask filter	\$8,310.00	\$7,000.00	N/A	N/A	N/A

Single frequency agile exciter	\$21,050.00	\$20,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$1,665,360.00	\$1,317,000.00	N/A	\$852,310.81	N/A
<b>Total for all systems</b>	\$3,724,300.00	\$2,783,600.00	N/A	\$1,231,906.16	N/A

## Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<p><b>Component Description:</b> 2nd payment for ULXTE-60 transmitter</p> <p><b>Amount:</b> \$291,353.72</p> <p><b>Component Description:</b> deposit for primary transmitter</p> <p><b>Amount:</b> \$291,353.72</p> <p><b>Component Description:</b> 3rd payment - ULXTE-60</p> <p><b>Amount:</b> \$269,603.37</p>
Service entrance 3 phase /800 amp/208 volt	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF and VHF - minor banding issues	Information not provided.
10 kW mask filter	Information not provided.
Single frequency agile exciter	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
Interim Antenna TFU-WB16	\$144,180.00	\$120,400.00		\$0.00	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,000.00	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 900 kW input, directional,, horizontally polarized	<i>\$102,000.00</i>	\$102,000.00	N/A	\$0.00	N/A

<b>Primary Antenna TUM20-04-12/48H-1-R-T</b>	<b>\$877,880.00</b>	<b>\$573,200.00</b>		<b>\$263,129.85</b>	
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	\$768,000.00	\$500,000.00	N/A	\$211,612.50	N/A
Sweep test of existing antenna	\$6,730.00	\$6,550.00	N/A	\$2,880.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$50,000.00	N/A	\$41,144.85	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$16,650.00	N/A	\$7,492.50	N/A
<b>Sub-total</b>	<b>\$1,022,060.00</b>	<b>\$693,600.00</b>	<b>N/A</b>	<b>\$263,129.85</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$3,724,300.00</b>	<b>\$2,783,600.00</b>	<b>N/A</b>	<b>\$1,231,906.16</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name

Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b>	2nd payment - elbow complex
	<b>Amount:</b>	\$5,386.50
	<b>Component Description:</b>	1st payment - elbow complex
	<b>Amount:</b>	\$5,386.50
Sweep test of existing antenna	<b>Component Description:</b>	2nd payment - sweep test
	<b>Amount:</b>	\$2,880.00
	<b>Component Description:</b>	1st payment - sweep test
	<b>Amount:</b>	\$2,880.00
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 900 kW input, directional,, horizontally polarized	<b>Component Description:</b>	2nd payment - TFU16WB-1-R
	<b>Amount:</b>	\$45,866.25
	<b>Component Description:</b>	1st payment - TFU16WB-1-R Antenna
	<b>Amount:</b>	\$45,866.25

<p>UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="707 174 1015 208"><b>Component Description:</b></td><td data-bbox="1147 174 1382 405">ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA - 1st payment</td></tr> <tr> <td data-bbox="707 416 815 450"><b>Amount:</b></td><td data-bbox="1147 416 1294 450">\$105,806.25</td></tr> <tr> <td data-bbox="707 555 1015 589"><b>Component Description:</b></td><td data-bbox="1147 555 1382 741">ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA</td></tr> <tr> <td data-bbox="707 752 815 786"><b>Amount:</b></td><td data-bbox="1147 752 1294 786">\$105,806.25</td></tr> </table>	<b>Component Description:</b>	ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA - 1st payment	<b>Amount:</b>	\$105,806.25	<b>Component Description:</b>	ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA	<b>Amount:</b>	\$105,806.25
<b>Component Description:</b>	ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA - 1st payment								
<b>Amount:</b>	\$105,806.25								
<b>Component Description:</b>	ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA								
<b>Amount:</b>	\$105,806.25								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="707 925 1015 958"><b>Component Description:</b></td><td data-bbox="1147 925 1337 999">Sweep Test 2nd payment</td></tr> <tr> <td data-bbox="707 1010 815 1043"><b>Amount:</b></td><td data-bbox="1147 1010 1267 1043">\$1,440.00</td></tr> <tr> <td data-bbox="707 1149 1015 1182"><b>Component Description:</b></td><td data-bbox="1147 1149 1337 1223">Sweep test - 1st payment</td></tr> <tr> <td data-bbox="707 1234 815 1267"><b>Amount:</b></td><td data-bbox="1147 1234 1267 1267">\$1,440.00</td></tr> </table>	<b>Component Description:</b>	Sweep Test 2nd payment	<b>Amount:</b>	\$1,440.00	<b>Component Description:</b>	Sweep test - 1st payment	<b>Amount:</b>	\$1,440.00
<b>Component Description:</b>	Sweep Test 2nd payment								
<b>Amount:</b>	\$1,440.00								
<b>Component Description:</b>	Sweep test - 1st payment								
<b>Amount:</b>	\$1,440.00								
<p>New combiner, cost per channel (without antenna)</p>	<table> <tr> <td data-bbox="707 1395 1015 1429"><b>Component Description:</b></td><td data-bbox="1147 1395 1361 1469">combiner - shared cost with WTTK</td></tr> <tr> <td data-bbox="707 1480 815 1514"><b>Amount:</b></td><td data-bbox="1147 1480 1281 1514">\$41,144.85</td></tr> </table>	<b>Component Description:</b>	combiner - shared cost with WTTK	<b>Amount:</b>	\$41,144.85				
<b>Component Description:</b>	combiner - shared cost with WTTK								
<b>Amount:</b>	\$41,144.85								
<p>Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="707 1648 1015 1682"><b>Component Description:</b></td><td data-bbox="1147 1648 1342 1722">Elbow complex - 1st payment</td></tr> <tr> <td data-bbox="707 1733 815 1767"><b>Amount:</b></td><td data-bbox="1147 1733 1267 1767">\$3,746.25</td></tr> <tr> <td data-bbox="707 1872 1015 1906"><b>Component Description:</b></td><td data-bbox="1147 1872 1342 1946">Elbow complex - 2nd payment</td></tr> <tr> <td data-bbox="707 1957 815 1991"><b>Amount:</b></td><td data-bbox="1147 1957 1267 1991">\$3,746.25</td></tr> </table>	<b>Component Description:</b>	Elbow complex - 1st payment	<b>Amount:</b>	\$3,746.25	<b>Component Description:</b>	Elbow complex - 2nd payment	<b>Amount:</b>	\$3,746.25
<b>Component Description:</b>	Elbow complex - 1st payment								
<b>Amount:</b>	\$3,746.25								
<b>Component Description:</b>	Elbow complex - 2nd payment								
<b>Amount:</b>	\$3,746.25								



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	\$185,600.00	\$150,000.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8" broadband	\$185,600.00	\$150,000.00	N/A	\$0.00	N/A
Primary Transmission Line	\$381,700.00	\$260,000.00		\$116,465.50	
Rigid Transmission Line - copper, 8 3/16"	\$381,700.00	\$260,000.00	N/A	\$116,465.50	N/A
Sub-total	\$567,300.00	\$410,000.00	N/A	\$116,465.50	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,231,906.16	N/A

Components

Actual Information	
Description	File Name

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

**Component Description:**

1st payment -  
transmission line

**Amount:**

\$64,951.74

**Component Description:**

2nd payment -  
transmission line

**Amount:**

\$64,954.74

**Component Description:**

2nd payment -  
TLSCR'S

**Amount:**

\$2,319.98

**Component Description:**

1st payment -  
TLSCR'S

**Amount:**

\$2,319.98

Rigid Transmission Line -  
copper, 8 3/16"

**Component Description:** TLSCR'S TBD T/L  
8-75 EIA LENGTH  
15' TO 20' - 2nd  
payment  
**Amount:** \$2,801.25

**Component Description:** Transmission line  
8-3/16" 75 OHM -  
2nd payment  
**Amount:** \$55,431.50

**Component Description:** 8-3/16" 75 OHM  
EIA transmission  
line - 1st payment  
**Amount:** \$55,431.50

**Component Description:** TLSCR'S TBD T/L  
8-75 EIA LENGTH  
15' TO 20' - 1st  
payment  
**Amount:** \$2,801.25

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	\$381,100.00	\$287,000.00		\$0.00	
Tall Tower (greater than 500')	\$210,500.00	\$175,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$100,000.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	N/A	N/A
Sub-total	\$381,100.00	\$287,000.00	N/A	\$0.00	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,231,906.16	N/A

Components

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
Outside Professional Services	\$40,930.00	\$29,000.00		\$0.00	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	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
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	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
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$11,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$40,930.00	\$29,000.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,724,300.00	\$2,783,600.00	N/A	\$1,231,906.16	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	\$47,550.00	\$47,000.00		\$0.00	
MVPD Notification of Channel Change	<i>\$11,000.00</i>	\$11,000.00	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>\$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
Sub-total	\$47,550.00	\$47,000.00	N/A	\$0.00	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,231,906.16	N/A

Components

Information not provided.

<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>	\$3,724,300.00	\$2,783,600.00
			\$1,231,906.16

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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



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.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Teri Ann  
Guillory**  
*Broadcasting  
Operations*

03/12/2019

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <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>Teri Ann Guillory</b>  <i>Broadcasting Operations</i></p> <p>03/12/2019</p>

## Attachments