



(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 **02/21**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
TRIBUNE BROADCASTING INDIANAPOLIS, LLC	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
Bill Vanduyndhoven , Vnduyndhov . <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
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	10 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	Yes
	Exciter Type	Single frequency agile

**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	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

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	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
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?	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
Existing Antenna Manufacturer and Type	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
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	8 3/16 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
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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
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	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
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?	S
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

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
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	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
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	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
Outside Project Management Services	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
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	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
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	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
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
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)?	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

Other Expenses	Other Expenses Not Listed
	Information not provided.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-60	\$1,530,800.00	\$1,275,000.00		\$582,707.44	
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	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
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,220,000.00	N/A	\$582,707.44	N/A
Auxiliary Transmitter Innovator HX HU5000BD	\$134,560.00	\$42,000.00		\$0.00	
Single frequency agile exciter	\$21,050.00	\$20,000.00	N/A	N/A	N/A
10 kW mask filter	\$8,310.00	\$7,000.00	N/A	N/A	N/A

UHF and VHF - minor banding issues	\$105,200.00	\$15,000.00	N/A	N/A	N/A
Sub-total	\$1,665,360.00	\$1,317,000.00	N/A	\$582,707.44	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,163,969.88	N/A

Components

Actual Information	
Description	File Name
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.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div> Component Description: 2nd payment for ULXTE-60 transmitter Amount: \$291,353.72 </div> <div> Component Description: deposit for primary transmitter Amount: \$291,353.72 </div>
Single frequency agile exciter	Information not provided.
10 kW mask filter	Information not provided.
UHF and VHF - minor banding issues	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		\$108,265.50	
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	\$10,773.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	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	\$91,732.50	N/A

Primary Antenna TUM20-04-12/48H-1-R-T	\$877,880.00	\$573,200.00		\$221,985.00	
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
New combiner, cost per channel (without antenna)	\$84,200.00	\$50,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,550.00	N/A	\$2,880.00	N/A
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
Sub-total	\$1,022,060.00	\$693,600.00	N/A	\$330,250.50	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,163,969.88	N/A

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)	Component Description:	1st payment - elbow complex
	Amount:	\$5,386.50
	Component Description:	2nd payment - elbow complex
	Amount:	\$5,386.50
Sweep test of existing antenna	Component Description:	1st payment - sweep test
	Amount:	\$2,880.00
	Component Description:	2nd payment - sweep test
	Amount:	\$2,880.00
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 900 kW input, directional,, horizontally polarized	Component Description:	1st payment - TFU16WB-1-R Antenna
	Amount:	\$45,866.25
	Component Description:	2nd payment - TFU16WB-1-R
	Amount:	\$45,866.25

<p>Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="703 98 1086 248"> <p>Component Description:</p> </td><td data-bbox="1102 98 1426 248"> <p>Elbow complex - 2nd payment</p> </td></tr> <tr> <td data-bbox="703 248 1086 309"> <p>Amount:</p> </td><td data-bbox="1102 248 1426 309"> <p>\$3,746.25</p> </td></tr> <tr> <td data-bbox="703 383 1086 465"> <p>Component Description:</p> </td><td data-bbox="1102 383 1426 465"> <p>Elbow complex - 1st payment</p> </td></tr> <tr> <td data-bbox="703 465 1086 526"> <p>Amount:</p> </td><td data-bbox="1102 465 1426 526"> <p>\$3,746.25</p> </td></tr> </table>	<p>Component Description:</p>	<p>Elbow complex - 2nd payment</p>	<p>Amount:</p>	<p>\$3,746.25</p>	<p>Component Description:</p>	<p>Elbow complex - 1st payment</p>	<p>Amount:</p>	<p>\$3,746.25</p>
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<p>Amount:</p>	<p>\$3,746.25</p>								
<p>New combiner, cost per channel (without antenna)</p>	<p>Information not provided.</p>								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="703 685 1086 835"> <p>Component Description:</p> </td><td data-bbox="1102 685 1426 835"> <p>Sweep Test 2nd payment</p> </td></tr> <tr> <td data-bbox="703 835 1086 896"> <p>Amount:</p> </td><td data-bbox="1102 835 1426 896"> <p>\$1,440.00</p> </td></tr> <tr> <td data-bbox="703 969 1086 1052"> <p>Component Description:</p> </td><td data-bbox="1102 969 1426 1052"> <p>Sweep test - 1st payment</p> </td></tr> <tr> <td data-bbox="703 1052 1086 1113"> <p>Amount:</p> </td><td data-bbox="1102 1052 1426 1113"> <p>\$1,440.00</p> </td></tr> </table>	<p>Component Description:</p>	<p>Sweep Test 2nd payment</p>	<p>Amount:</p>	<p>\$1,440.00</p>	<p>Component Description:</p>	<p>Sweep test - 1st payment</p>	<p>Amount:</p>	<p>\$1,440.00</p>
<p>Component Description:</p>	<p>Sweep Test 2nd payment</p>								
<p>Amount:</p>	<p>\$1,440.00</p>								
<p>Component Description:</p>	<p>Sweep test - 1st payment</p>								
<p>Amount:</p>	<p>\$1,440.00</p>								
<p>UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="703 1160 1086 1467"> <p>Component Description:</p> </td><td data-bbox="1102 1160 1426 1467"> <p>ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA - 1st payment</p> </td></tr> <tr> <td data-bbox="703 1467 1086 1527"> <p>Amount:</p> </td><td data-bbox="1102 1467 1426 1527"> <p>\$105,806.25</p> </td></tr> <tr> <td data-bbox="703 1601 1086 1798"> <p>Component Description:</p> </td><td data-bbox="1102 1601 1426 1798"> <p>ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA</p> </td></tr> <tr> <td data-bbox="703 1798 1086 1895"> <p>Amount:</p> </td><td data-bbox="1102 1798 1426 1895"> <p>\$105,806.25</p> </td></tr> </table>	<p>Component Description:</p>	<p>ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA - 1st payment</p>	<p>Amount:</p>	<p>\$105,806.25</p>	<p>Component Description:</p>	<p>ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA</p>	<p>Amount:</p>	<p>\$105,806.25</p>
<p>Component Description:</p>	<p>ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA - 1st payment</p>								
<p>Amount:</p>	<p>\$105,806.25</p>								
<p>Component Description:</p>	<p>ELLIPTICALLY POLARIZED TUM20-O4-12/48H-1-R-T PANEL ANTENNA</p>								
<p>Amount:</p>	<p>\$105,806.25</p>								

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		\$134,546.44	
Rigid Transmission Line - copper, 6 1/8" broadband	\$185,600.00	\$150,000.00	N/A	\$134,546.44	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	\$251,011.94	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,163,969.88	N/A

Components

Actual Information	
Description	File Name

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

Component Description:

2nd payment -
transmission line

Amount:

\$64,954.74

Component Description:

2nd payment -
TLSCR'S

Amount:

\$2,319.98

Component Description:

1st payment -
transmission line

Amount:

\$64,951.74

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' - 1st
payment
Amount: \$2,801.25

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

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

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

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
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	\$1,163,969.88	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	
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
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 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, Construction Permit Application	\$2,105.00	\$2,000.00	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 engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Sub-total	\$40,930.00	\$29,000.00	N/A	\$0.00	N/A
Total for all systems	\$3,724,300.00	\$2,783,600.00	N/A	\$1,163,969.88	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	\$1,163,969.88	N/A

Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,724,300.00	\$2,783,600.00	\$1,163,969.88

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

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>Bill VanDuynhoven <i>Director Engineering Operations</i></p> <p>02/21/2019</p>

Attachments