



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **147** | Service: **DTV** | Call **WTIC-TV** | Channel: **34 (UHF)** |  
ID:  
File **0000028235**  
Number:  
FRN: **0028358455** | Date **03/12**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>TRIBUNE BROADCASTING HARTFORD, LLC</b> Doing Business As: TRIBUNE BROADCASTING HARTFORD, LLC	Dean Maluski 285 BROAD STREET HARTFORD, CT 06115 United States	+1 (860) 527-6161	dmaluski@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 , Vanduyndhov .</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.	No
Briefly describe transition plan	Replace Antenna via Helicopter and transmission line Replace transmitter Install Interim antenna

**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	Inovator HX HU5000BD
	Year	2009

	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	PowerCD P1
	Year	2005
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	30 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	44 kW
	Justification for New Transmitter	Current transmitter can not make the required power, adding additional PA cabinets is not an option since they are no longer manufactured.

**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?	No
	Is the existing antenna directional?	Yes
	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	Bottom
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	495.0 kW

Manufacturer	
Model	TFU-18DSC /VP-R O4 C170
Year	2004

Primary  
Antenna

New Antenna Costs

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

Model	TFU-18DSC /VP-R C170
Year	2019
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?	Broadband
	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?	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

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	3
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	665.00 MHz
	Design power capacity in use	95.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1500.0 kW
	Manufacturer	
	Model	TFU-WB16
	Year	2020

	Justification for New Antenna	Antenna for operation during tower work for 3 stations. WTIC will install the antenna
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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?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	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?	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

Enter a list of RF channel numbers.

RF Channel Number

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45

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20

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31

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**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
Interim WX delays	Weather delays during install
Lease cost	Temporary lease for Interim antenna
Interim Instantiation	Install interim antenna
Insurance	Additional charge to meet Owner insurance requirement



**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	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1375 feet per run

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

Facility ID	Call Sign
14050	WCCT-TV

**Primary  
Transmission Line**

**New Transmission Line**

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	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1375 feet per run
	Justification for New Transmission Line	Current shared transmission line is no longer supported by manufacturer and will not work on new channel. Station cannot share with line with WCCT on new assigned channels.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
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	1200 feet per run
	Justification for New Transmission Line	Transmission line for temporary operation during antenna changes.

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?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates ( NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 42' 13.0" N-
	Longitude (NAD83)	072° 49' 55.0" W-
	Overall Structure Height	1338.89 feet
	Support Structure Height	1291.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	709.97 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

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

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

Facility ID	Call Sign	Service
66465	WTIC-FM	FM
1910	WRCH	FM
1900	WZMX	FM
14050	WCCT-TV	DTV
13602	WEDH	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 documented tower
<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

## Primary Tower

### Tower Rigging Costs

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

Primary  
Tower

Other Tower Expenses Not Listed

Name	Description
Weather delays	Days the crew can not work due to weather



**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	100
	Explanation	Management services by Landlord
<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 Professional Services Costs**      **Other Professional Services Expenses Not Listed**

Services provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
<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)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

<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
Primary Transmitter ULXTE-72	\$1,530,800.00	\$1,455,000.00		\$991,750.06	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,400,000.00	N/A	\$991,750.06	N/A
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
Auxiliary Transmitter Inovator 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
<b>Sub-total</b>	\$1,665,360.00	\$1,497,000.00	N/A	\$991,750.06	N/A
<b>Total for all systems</b>	\$3,892,045.00	\$3,425,340.00	N/A	\$1,712,096.24	N/A

## Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<p><b>Component Description:</b> Transmitter Deposit</p> <p><b>Amount:</b> \$342,317.91</p> <p><b>Component Description:</b> 3rd payment for primary transmitter</p> <p><b>Amount:</b> \$297,183.13</p> <p><b>Component Description:</b> second payment for ULXTE-72</p> <p><b>Amount:</b> \$352,249.02</p>
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.
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	\$590,670.00	\$572,440.00		\$157,792.50	
Insurance	<i>\$54,940.00</i>	\$54,940.00	Tower owner requested insurance above the standard amount. This is an additional cost.	N/A	N/A
Interim Instantiation	<i>\$248,650.00</i>	\$248,650.00	Installation and tower upgrade to accommodate Interim antenna will be used by 3 stations	N/A	N/A
Lease cost	<i>\$65,000.00</i>	\$65,000.00	Tower lease for Interim antenna	N/A	N/A
Interim WX delays	<i>\$15,525.00</i>	\$15,525.00	Actual cost	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$13,000.00	N/A	\$0.00	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$67,000.00	N/A	\$60,300.00	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,, 1500 kW input, directional,, horizontally polarized	<b>\$101,925.00</b>	\$101,925.00	N/A	\$91,732.50	N/A
<b>Primary Antenna TFU-18DSC /VP-R C170</b>	<b>\$182,730.00</b>	<b>\$175,400.00</b>		<b>\$153,321.76</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$17,000.00	N/A	\$14,782.50	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$16,000.00	N/A	\$11,144.26	N/A



UHF - High Power, Side Mount, basic slot antenna, 565 kW input, directional,, elliptically or circularly polarized	\$136,000.00	\$136,000.00	N/A	\$121,635.00	N/A
<b>Sub-total</b>	\$773,400.00	\$747,840.00	N/A	\$311,114.26	N/A
<b>Total for all systems</b>	\$3,892,045.00	\$3,425,340.00	N/A	\$1,712,096.24	N/A

## Components

Actual Information	
Description	File Name
Insurance	Information not provided.
Interim Instantiation	Information not provided.
Lease cost	Information not provided.
Interim WX delays	Information not provided.
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	<p><b>Component Description:</b> this was put here by mistake and I can't delete it. That is why the dollar amount is zero.</p> <p><b>Amount:</b> N/A</p>

New combiner, cost per channel (without antenna)	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Combiners for Interim Antenna deposit \$30,150.00 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Combiners for Interim Antenna 2nd payment \$30,150.00 </div> </div>
Sweep test of existing antenna	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Engineer on site for sweep test 2nd payment \$2,880.00 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Engineer on site for sweep test deposit \$2,880.00 </div> </div>
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> 2nd payment for Interim Antenna \$45,866.25 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> deposit for interim Antenna \$45,866.25 </div> </div>

Side mount brackets for high power antennas (if not included in antenna base cost)	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>2nd payment for Side mount brackets</p> <p>\$7,391.25</p>
	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Deposit for Side mount brackets</p> <p>\$7,391.25</p>
Sweep test of existing antenna	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Eng. for sweep test on site - 2nd payment</p> <p>\$2,880.00</p>
	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Eng. for sweep test on site deposit</p> <p>\$2,880.00</p>
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Elbow Complex 7 3/16 75 OHM feedline - 2nd payment</p> <p>\$5,572.13</p>
	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Elbow Complex 7 3/16 75 OHM feedline deposit.</p> <p>\$5,572.13</p>

UHF - High Power, Side Mount, basic slot antenna, 565 kW input, directional,, elliptically or circularly polarized		
	<b>Component Description:</b>	2nd payment
		VPOL
		Components
	<b>Amount:</b>	\$7,627.50
	<b>Component Description:</b>	2nd payment for
		Primary Antenna
	<b>Amount:</b>	\$53,190.00
	<b>Component Description:</b>	deposit for VPOL
		Components
	<b>Amount:</b>	\$7,627.50
	<b>Component Description:</b>	Deposit for
		Primary Antenna
	<b>Amount:</b>	\$53,190.00

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$278,400.00	\$240,000.00		\$173,748.96	
Rigid Transmission Line - copper, 6 1/8" broadband	\$278,400.00	\$240,000.00	N/A	\$173,748.96	N/A
Primary Transmission Line	\$398,750.00	\$260,000.00		\$235,482.96	
Rigid Transmission Line - copper, 7 3/16"	\$398,750.00	\$260,000.00	N/A	\$235,482.96	N/A
Sub-total	\$677,150.00	\$500,000.00	N/A	\$409,231.92	N/A
Total for all systems	\$3,892,045.00	\$3,425,340.00	N/A	\$1,712,096.24	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line -  
copper, 6 1/8" broadband

**Component Description:**

2nd payment for T  
/L 6-75 EIA Length  
15' to 20' fixed flg  
1 end/swivel

**Amount:**

\$4,567.50

**Component Description:**

2nd payment for  
Rigid  
Transmission Line  
- Copper

**Amount:**

\$82,306.98

**Component Description:**

Deposit payment  
for T/L 6-75 EIA  
Length 15' to 20'  
fixed flg 1 end  
/swivel

**Amount:**

\$4,567.50

**Component Description:**

Deposit for Rigid  
Transmission line -  
copper 6 1/8

**Amount:**

\$82,306.98

Rigid Transmission Line -  
copper, 7 3/16"

**Component Description:** 2nd payment for  
Transmission line  
**Amount:** \$109,353.25

**Component Description:** 2nd payment for  
fixed flg 1 and end  
/swivel  
**Amount:** \$3,017.25

**Component Description:** through complex  
WTIC 6-1/8" 50  
OHM EIA feed -  
2nd payment  
**Amount:** \$5,370.75

**Component Description:** through complex  
WTIC 6-1/8" 50  
OHM EIA feed -  
deposit  
**Amount:** \$5,370.75

**Component Description:** deposit for fixed flg  
1 and end/swivel  
**Amount:** \$3,017.25

**Component Description:** Deposit for  
Transmission line  
**Amount:** \$109,353.71

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	\$591,600.00	\$501,500.00		\$0.00	
Weather delays	\$0.00	\$0.00	N/A	N/A	N/A
Tower Helicopter Lift	\$0.00	\$0.00	Included in Tower quote	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
Minor tower reinforcement /modifications	\$158,000.00	\$80,000.00	N/A	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$409,500.00	N/A	N/A	N/A
Sub-total	\$591,600.00	\$501,500.00	N/A	\$0.00	N/A
Total for all systems	\$3,892,045.00	\$3,425,340.00	N/A	\$1,712,096.24	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	\$53,045.00	\$49,500.00		\$0.00	
RF Exposure Measurements	\$21,050.00	\$20,000.00	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	\$15,800.00	\$15,000.00	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
<b>Sub-total</b>	\$53,045.00	\$49,500.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,892,045.00	\$3,425,340.00	N/A	\$1,712,096.24	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
<b>Other Expenses</b>	<b>\$131,490.00</b>	<b>\$129,500.00</b>		<b>\$0.00</b>	
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 Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
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	N/A	N/A
Equipment Storage	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Impact study	\$7,890.00	\$7,500.00	N/A	N/A	N/A

AM Pattern Disturbance -- Remedy	\$21,050.00	\$20,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$131,490.00	\$129,500.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,892,045.00	\$3,425,340.00	N/A	\$1,712,096.24	N/A

## Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,892,045.00	\$3,425,340.00	\$1,712,096.24

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"> <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>Bill VanDuynhoven</b>  <i>Director Engineering Operations</i></p> <p>03/12/2019</p>

## Attachments