



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **13602** | Service: **DTV** | Call **WEDH** | Channel: **45 (UHF)** |  
ID:  
File **0000028127**  
Number:  
FRN: **0003574662** | Date **05/19**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>CONNECTICUT PUBLIC BROADCASTING, INC.</b>	Meg Sakellarides 1049 ASYLUM AVENUE HARTFORD, CT 06105 United States	+1 (860) 278-5310	MSAKELLARIDES@CPTV.ORG	Not-for-Profit

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

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

## Broadcaster Information and Transition Plan

Question	Response
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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	Purchase of a new transmitter, new transmission line, and new antenna. Retuning of the existing transmitter to the new channel is cost-prohibitive. Interim antenna and transmission line are planned during transition to main antenna.

## Transmitters

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DCX Paragon MSDC-IOT
	Year	2008
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	36 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-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	1) Comark has indicated that retuning the existing transmitter, coupled with the rental of a temporary transmitter, would be higher than the Widelity cost; 2) the temporary rental transmitter would reduce WEDH's public service to its community.

**Primary  
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)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Labor and materials to accomplish either modification of existing electrical service or new electrical service and new wiring for new transmitter and wiring for 480 3-phase.
<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**

Name		Description
Mask Filter		8-Pole Mask Filter
Project Expenses		Other services

**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	Side Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	490.0 kW



Manufacturer	
Model	TFU- 16DSC-R C170
Year	2009

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	Horizontal
	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) .....	365.0 kW
	Manufacturer	

Model	TFU-16DSC-R C170
Year	2019
Justification for New Antenna	Existing antenna is single channel and is channel-specific. Justification for side mount brackets: antenna is top-mounted on candelabra tower but is side mounted in the bottom of the stack and side mounted brackets are required (see attached quote).

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A

	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	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

Name	Description
<b>Project Expenses</b>	Other services
<b>Reducer</b>	6-75 x 7-75

**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	Interim antenna is necessary for broadcast operation during tower work for 3 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?	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
31
20
45

**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?	No
	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	1480 feet per run

**Primary**      **New Transmission Line**  
**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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1480 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.

**Primary**      **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Name	Description
<b>Project Expenses</b>	Other services

**Interim  
Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1450 feet per run
	Justification for New Transmission Line	Transmission line for temporary operation of 3 stations during antenna changes.

**Interim  
Transmission Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
<b>Interim Internal Transmission Line</b>	Andrews Flexible Air Line, 4in at 80 feet with Reducer & Estimated Freight

**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
14050	WCCT-TV	DTV
66465	WTIC-FM	FM
1910	WRCH	FM
1900	WZMX	FM
147	WTIC-TV	DTV

## Primary Tower

### Tower Modification Costs

Section	Question	Response
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needed for 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?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Name	Description
Tower Lease	Additional tower rent expense for interim antenna and transmission line necessary during transition.

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	695
	Explanation	Project management services by the transmitter manufacturer and tower 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	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	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	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	2
	Justification	Field Engineering required for RF study for a nearby AM directional system.



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

**Other  
Expenses**

**Other Expenses Not Listed**

Name		Description
Insurance		Builder's Risk during construction
Site Security		Hire of outside security to secure the site during construction
Engineering and Administrative		Internal Project Management

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-50	\$926,487.17	\$907,933.97		\$295,777.97	
4" Rigid Conduit and Wiring (Cost per foot)	\$10,100.00	\$9,600.00	N/A	N/A	N/A
Project Expenses	\$0.00	\$0.00	N/A	N/A	N/A
Mask Filter	\$43,753.12	\$43,753.12	N/A	\$19,514.58	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$760,367.87	\$760,367.87	N/A	\$276,263.39	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$7,496.80	N/A	N/A	N/A

Other Electrical Service: Labor and materials to accomplish either modification of existing electrical service or new electrical service and new wiring for new transmitter and wiring for 480 3-phase.	<b>\$86,716.18</b>	\$86,716.18	N/A	\$0.00	N/A
<b>Sub-total</b>	\$926,487.17	\$907,933.97	N/A	\$295,777.97	N/A
<b>Total for all systems</b>	\$3,191,215.98	\$2,858,313.98	N/A	\$1,104,136.12	N/A

## Components

Actual Information	
Description	File Name
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Project Expenses	Information not provided.

Mask Filter	<b>Component Description:</b>	WEDH-110-1st Primary Transmitter - Mask Filter
	<b>Amount:</b>	\$16,214.58
	<b>Component Description:</b>	WEDH-110-1st Primary Transmitter - Mask Filter
	<b>Amount:</b>	\$3,300.00
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<b>Component Description:</b>	ULXTE-50
	<b>Amount:</b>	\$229,563.39
	<b>Component Description:</b>	ULXTE-50 Transmitter
	<b>Amount:</b>	\$46,700.00
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Other Electrical Service: Labor and materials to accomplish either modification of existing electrical service or new electrical service and new wiring for new transmitter and wiring for 480 3-phase.	Information not provided.	

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TFU-WB16</b>	<b>\$138,630.00</b>	<b>\$132,400.00</b>		<b>\$0.00</b>	
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized	<i>\$34,000.00</i>	\$34,000.00	In resubmission on 8/22/17, item has been reduced to 1 /3 the initially submitted amount for sharing of cost with WTIC and WCCT.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$12,000.00	N/A	N/A	N/A
<b>Primary Antenna TFU-16DSC-R C170</b>	<b>\$235,520.00</b>	<b>\$221,390.00</b>		<b>\$164,859.30</b>	

Reducer	<b>\$2,240.00</b>	\$2,240.00	See attached quote from Dielectric supporting cost.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$17,752.00	Antenna is top-mounted on candelabra tower but is side mounted in the bottom of the stack of the candelabra and therefore side-mounted brackets are required (see attached quote from Dielectric).	\$15,976.80	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$14,998.00	Dielectric Quote 800211CMZ-3A	\$13,498.20	N/A
Project Expenses	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	N/A



UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$180,000.00	N/A	\$129,624.30	N/A
<b>Sub-total</b>	\$374,150.00	\$353,790.00	N/A	\$164,859.30	N/A
<b>Total for all systems</b>	\$3,191,215.98	\$2,858,313.98	N/A	\$1,104,136.12	N/A

## Components

Actual Information	
Description	File Name
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized	Information not provided.
Sweep test of existing antenna	<p><b>Component Description:</b> CT-Hartford-WEDH-Work on interim antenna option; memo - Professional Services</p> <p><b>Amount:</b> \$125.00</p>
New combiner, cost per channel (without antenna)	Information not provided.
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
Reducer	Information not provided.

Side mount brackets for high power antennas (if not included in antenna base cost)	<b>Component Description:</b>		WEDH Primary Antenna Side Mount Brackets
	<b>Amount:</b>		\$7,988.40
	<b>Component Description:</b>		WEDH Primary Antenna Side Mount Brackets
	<b>Amount:</b>		\$7,988.40
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	<b>Component Description:</b>		WEDH Primary Antenna Elbow Complex
	<b>Amount:</b>		\$6,749.10
	<b>Component Description:</b>		WEDH Primary Antenna Elbow Complex
	<b>Amount:</b>		\$6,749.10
Project Expenses	Information not provided.		
Sweep test of existing antenna	<b>Component Description:</b>		WEDH Primary Antenna Sweep Test
	<b>Amount:</b>		\$2,880.00
	<b>Component Description:</b>		WEDH Primary Sweep Test
	<b>Amount:</b>		\$2,880.00

UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<b>Component Description:</b>		Antenna - UHF
			Side/Pole Mount, Rigid
			Transmission Line - Copper, etc.
	<b>Amount:</b>		\$64,812.15
	<b>Component Description:</b>		Antenna - UHF
			side/pole mount
	<b>Amount:</b>		\$64,812.15

## 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
<b>Interim Transmission Line</b>	<b>\$348,092.41</b>	<b>\$91,692.41</b>		<b>\$11,692.41</b>	
Rigid Transmission Line - copper, 6 1/8" broadband	\$336,400.00	\$80,000.00	In resubmission on 8/22/17, item has been reduced to 1/3 the initially submitted amount for sharing of cost with WTIC and WCCT.	\$0.00	N/A
Interim Internal Transmission Line	<b>\$11,692.41</b>	\$11,692.41	Please see attached Dielectric quote 800141CMZ-1 at \$10,672.41 and attached Dielectric invoice 203001 for freight costs at \$1,020.	\$11,692.41	N/A
<b>Primary Transmission Line</b>	<b>\$429,200.00</b>	<b>\$283,337.20</b>		<b>\$254,846.88</b>	
Project Expenses	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A

Rigid Transmission Line - copper, 7 3/16"	\$429,200.00	\$283,337.20	Dielectric Quote 800211CMZ-3A	\$254,846.88	N/A
<b>Sub-total</b>	\$777,292.41	\$375,029.61	N/A	\$266,539.29	N/A
<b>Total for all systems</b>	\$3,191,215.98	\$2,858,313.98	N/A	\$1,104,136.12	N/A

## Components

Actual Information		
Description	File Name	
Rigid Transmission Line - copper, 6 1/8" broadband	<b>Component Description:</b>  <b>Amount:</b>	WEDH FCC Repack Ch 30 Interim transmission line installation \$2,398.00
Interim Internal Transmission Line	<b>Component Description:</b>  <b>Amount:</b>	Flexible Transmission Line \$10,077.41
	<b>Component Description:</b>  <b>Amount:</b>	Reducer 6-50 X 3-50 W/CONN "QS \$1,615.00
Project Expenses	Information not provided.	
Rigid Transmission Line - copper, 7 3/16"	<b>Component Description:</b>  <b>Amount:</b>	WEDH Primary Transmission Line \$127,423.44
	<b>Component Description:</b>  <b>Amount:</b>	WEDH Primary Transmission Line \$127,423.44



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	\$656,600.00	\$788,626.00		\$306,900.00	
Minor tower reinforcement /modifications	\$158,000.00	\$511,626.00	See Turris Engineering, Inc quote #18-0779- R2	\$130,626.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$200,000.00	N/A	\$111,274.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$0.00	N/A
Tower Lease	<i>\$65,000.00</i>	\$65,000.00	See attached quote and invoice from Communications Site Management LLC - estimated cost reduced from \$167,020.00 to \$65,000.00	\$65,000.00	N/A
Sub-total	\$656,600.00	\$788,626.00	N/A	\$306,900.00	N/A
Total for all systems	\$3,191,215.98	\$2,858,313.98	N/A	\$1,104,136.12	N/A

## Components

Actual Information	
Description	File Name
Minor tower reinforcement /modifications	<b>Component Description:</b>
	Antenna and tower modification
	<b>Amount:</b> \$120,950.00
	<b>Component Description:</b>
	25% Down Payment due upon Acceptance of Order
	<b>Amount:</b> \$9,676.00
	<b>Component Description:</b>
	WEDH-410- Existing Primary Tower - Complex Tower - Tower Rigging and Equipment
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<b>Amount:</b> \$111,274.00
	<b>Component Description:</b>
Structural engineering tower load study for well documented tower	Tower structural analysis and report.
	<b>Amount:</b> \$3,840.00
Tower Lease	<b>Component Description:</b>
	Interim Antenna - Tower Rent per Amendment
	<b>Amount:</b> \$65,000.00



Cost  
Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$256,030.00	\$254,268.00		\$42,337.95	
Additional Field Engineering Service, 2 Days	<i>\$4,000.00</i>	\$4,000.00	N/A	\$93.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$1,126.50	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	\$2,139.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,581.00	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	\$0.00	N/A
Project management of the transition	\$109,810.00	\$114,675.00	Please see quotes.	\$32,958.95	N/A
Prepare and or review reimbursement form	\$2,630.00	\$3,468.00	Professional Services invoices	\$1,939.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,375.00	Du Treil Invoices	\$2,500.00	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A
<b>Sub-total</b>	\$256,030.00	\$254,268.00	N/A	\$42,337.95	N/A
<b>Total for all systems</b>	\$3,191,215.98	\$2,858,313.98	N/A	\$1,104,136.12	N/A

## Components

Actual Information	
Description	File Name
Additional Field Engineering Service, 2 Days	<p><b>Component Description:</b> Legal services rendered through November 30, 2018.</p> <p><b>Amount:</b> \$93.00</p>
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	<p><b>Component Description:</b> WEDH-550-Attorney - Special Temporary Authorization</p> <p><b>Amount:</b> \$46.50</p> <p><b>Component Description:</b> Invoice for legal services, Email exchange J Mayo</p> <p><b>Amount:</b> \$1,080.00</p>

<p>Attorney Fees - Negotiation of lease and other matters for shared locations</p>	<table> <tr> <td><b>Component Description:</b></td><td>Legal Services</td></tr> <tr> <td><b>Amount:</b></td><td>\$2,139.00</td></tr> <tr> <td><b>Component Description:</b></td><td>Attorney - Negotiate Lease and Other Matters</td></tr> <tr> <td><b>Amount:</b></td><td>\$128.00</td></tr> </table>	<b>Component Description:</b>	Legal Services	<b>Amount:</b>	\$2,139.00	<b>Component Description:</b>	Attorney - Negotiate Lease and Other Matters	<b>Amount:</b>	\$128.00				
<b>Component Description:</b>	Legal Services												
<b>Amount:</b>	\$2,139.00												
<b>Component Description:</b>	Attorney - Negotiate Lease and Other Matters												
<b>Amount:</b>	\$128.00												
<p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>												
<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td><b>Component Description:</b></td><td>Attorney - Construction Permit Application (Main)</td></tr> <tr> <td><b>Amount:</b></td><td>\$372.00</td></tr> <tr> <td><b>Component Description:</b></td><td>Legal Services</td></tr> <tr> <td><b>Amount:</b></td><td>\$1,209.00</td></tr> <tr> <td><b>Component Description:</b></td><td>Prepare and file Construction Permit Application (Form 2100).</td></tr> <tr> <td><b>Amount:</b></td><td>\$600.00</td></tr> </table>	<b>Component Description:</b>	Attorney - Construction Permit Application (Main)	<b>Amount:</b>	\$372.00	<b>Component Description:</b>	Legal Services	<b>Amount:</b>	\$1,209.00	<b>Component Description:</b>	Prepare and file Construction Permit Application (Form 2100).	<b>Amount:</b>	\$600.00
<b>Component Description:</b>	Attorney - Construction Permit Application (Main)												
<b>Amount:</b>	\$372.00												
<b>Component Description:</b>	Legal Services												
<b>Amount:</b>	\$1,209.00												
<b>Component Description:</b>	Prepare and file Construction Permit Application (Form 2100).												
<b>Amount:</b>	\$600.00												
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>												
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>												
<p>Project management of the transition</p>	<table> <tr> <td><b>Component Description:</b></td><td>Project Management</td></tr> <tr> <td><b>Amount:</b></td><td>\$2,675.40</td></tr> </table>	<b>Component Description:</b>	Project Management	<b>Amount:</b>	\$2,675.40								
<b>Component Description:</b>	Project Management												
<b>Amount:</b>	\$2,675.40												

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,531.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,577.50

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$6,561.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,482.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,738.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$257.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,382.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,373.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,377.95

Prepare and or review  
reimbursement form

**Component Description:** Legal Services  
**Amount:** \$325.50

**Component Description:** Please Deny this  
invoice  
**Amount:** N/A

**Component Description:** Legal Services  
**Amount:** \$790.50

**Component Description:** Legal services for  
preparing,  
reviewing and  
submitting FCC  
Reimbursement  
Form 399  
**Amount:** \$540.00

**Component Description:** Television  
Repacking  
Services - WEDH  
**Amount:** \$627.00

**Component Description:** Prepare and  
Review  
Reimbursement  
Form  
**Amount:** \$325.50

**Component Description:** WEDH Legal  
Services  
**Amount:** \$172.50

**Component Description:** Legal Services  
**Amount:** \$325.50

Address transition timing  
and coordination issues w/  
other stations and wireless

**Component Description:**

Address transition  
timing and  
coordination.

**Amount:**

\$172.50

**Component Description:**

Transition timing  
and coordination.

**Amount:**

\$39.00

**Component Description:**

Address transition  
timing and  
coordination

**Amount:**

\$39.00

<p>Perform engineering study for new channel assignment and antenna development</p>	<table> <tr> <td data-bbox="697 100 1114 517"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 100 1428 517"> <p>Engineering study work for new channel assignment and antenna development</p> <p>\$2,000.00</p> </td></tr> <tr> <td data-bbox="697 517 1114 831"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 517 1428 831"> <p>CT New Haven-Assist w/channel share-WEDH-App /Map</p> <p>\$875.00</p> </td></tr> <tr> <td data-bbox="697 831 1114 1211"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 831 1428 1211"> <p>Engineering study work for new channel assignment and antenna development</p> <p>\$500.00</p> </td></tr> <tr> <td data-bbox="697 1211 1114 1458"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 1211 1428 1458"> <p>CT Hartford-WEDH-Early transition analysis/Phase 4</p> <p>\$1,625.00</p> </td></tr> <tr> <td data-bbox="697 1458 1114 1816"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 1458 1428 1816"> <p>Engineering study work for new channel assignment and antenna development</p> <p>\$125.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Engineering study work for new channel assignment and antenna development</p> <p>\$2,000.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>CT New Haven-Assist w/channel share-WEDH-App /Map</p> <p>\$875.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Engineering study work for new channel assignment and antenna development</p> <p>\$500.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>CT Hartford-WEDH-Early transition analysis/Phase 4</p> <p>\$1,625.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Engineering study work for new channel assignment and antenna development</p> <p>\$125.00</p>
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<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>CT Hartford-WEDH-Early transition analysis/Phase 4</p> <p>\$1,625.00</p>										
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Engineering study work for new channel assignment and antenna development</p> <p>\$125.00</p>										
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p>Information not provided.</p>										



## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$200,656.40</b>	<b>\$178,666.40</b>		<b>\$27,721.61</b>	
Engineering and Administrative	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Site Security	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Insurance	<i>\$18,150.00</i>	\$18,150.00	Turris Engineering Proposal #50195000	\$18,150.00	N/A
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>\$6,000.00</i>	\$6,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$15,000.00</i>	\$15,000.00	N/A	\$6,101.61	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$30,016.40</b>	\$30,016.40	See attached quotes from D'Amato and Tri-S for justification.	\$3,470.00	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	\$0.00	Disallowed by FCC as it is duplicated by a request from WTIC.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Local Zoning	<b>\$15,000.00</b>	\$15,000.00	N/A	\$0.00	N/A
<b>Sub-total</b>	\$200,656.40	\$178,666.40	N/A	\$27,721.61	N/A
<b>Total for all systems</b>	\$3,191,215.98	\$2,858,313.98	N/A	\$1,104,136.12	N/A

## Components

Actual Information	
Description	File Name
Engineering and Administrative	Information not provided.
Site Security	Information not provided.
Insurance	<p><b>Component Description:</b> Insurance Premium - WEDH FCC Repack Ch. 30</p> <p><b>Amount:</b> \$18,150.00</p>

MVPD Notification of Channel Change	Information not provided.																
Develop and air announcement of upcoming channel change	Information not provided.																
Equipment Storage	<table> <tr> <td><b>Component Description:</b></td><td>WEDH FCC Repack Ch 30 Site prep for 2 storage containers</td></tr> <tr> <td><b>Amount:</b></td><td>\$2,556.95</td></tr> <tr> <td><b>Component Description:</b></td><td>Rental for 2 storage containers Mobile Mini</td></tr> <tr> <td><b>Amount:</b></td><td>\$1,130.08</td></tr> <tr> <td><b>Component Description:</b></td><td>Rental for 2 storage containers</td></tr> <tr> <td><b>Amount:</b></td><td>\$1,130.08</td></tr> <tr> <td><b>Component Description:</b></td><td>WEDH FCC Repack Ch 30 Rental for 2 storage containers</td></tr> <tr> <td><b>Amount:</b></td><td>\$1,284.50</td></tr> </table>	<b>Component Description:</b>	WEDH FCC Repack Ch 30 Site prep for 2 storage containers	<b>Amount:</b>	\$2,556.95	<b>Component Description:</b>	Rental for 2 storage containers Mobile Mini	<b>Amount:</b>	\$1,130.08	<b>Component Description:</b>	Rental for 2 storage containers	<b>Amount:</b>	\$1,130.08	<b>Component Description:</b>	WEDH FCC Repack Ch 30 Rental for 2 storage containers	<b>Amount:</b>	\$1,284.50
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<b>Component Description:</b>	WEDH FCC Repack Ch 30 Rental for 2 storage containers																
<b>Amount:</b>	\$1,284.50																
Equipment Delivery and Handling Charges	Information not provided.																
Non-zoning permits	Information not provided.																
Disposal Costs (for equipment and other waste, net of any salvage value)	<table> <tr> <td><b>Component Description:</b></td><td>Disconnects and removals of equipment associated with the existing analog transmitter</td></tr> <tr> <td><b>Amount:</b></td><td>\$3,470.00</td></tr> </table>	<b>Component Description:</b>	Disconnects and removals of equipment associated with the existing analog transmitter	<b>Amount:</b>	\$3,470.00												
<b>Component Description:</b>	Disconnects and removals of equipment associated with the existing analog transmitter																
<b>Amount:</b>	\$3,470.00																

AM Pattern Disturbance -- Impact study	Information not provided.
AM Pattern Disturbance -- Remedy	Information not provided.
DTV Medical Facility Notification	Information not provided.
Local Zoning	Information not provided.

**Cost  
Information**

**Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,191,215.98	\$2,858,313.98	\$1,104,136.12

**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.

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.

**Meg  
Sakellarides**  
*Chief  
Financial  
Officer*

05/19/2019



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>Meg Sakellarides</b>  <i>Chief Financial Officer</i></p> <p>05/19/2019</p>

## Attachments