

(REFERENCE COPY - Not for submission)

### FCC Form 399: Reimbursement Request

13602 Service: DTV Channel: 45 (UHF) Facility Call WEDH Sign:

File 0000028127

Number:

ID:

FRN: 0003574662 Date 09/23

> Submitted: /2020

#### **Applicant** Information

#### **Applicant Name, Type, and Contact Information**

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

### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### **Preparer Contact** Information

#### **Preparer Contact Name and Information**

The Preparer is same as the reimbursement contact.

**Broadcaster** Information and **Transition** Plan

Question Response

Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	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

#### **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 Paragon MSDC-IOT
	Year	2008
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	36 kW

#### **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.

#### **Other Transmitter Costs**

Section	Question	Response
Electrical Service	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.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	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 leashold 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

#### **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

#### **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?	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
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Туре	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

#### **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 Owned N/A No Yes No Full Power Side Mount Bottom Horizontal
	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	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Туре	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	Side Mount  Bottom  Horizontal  Slotted Coaxial  N/A  N/A  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).

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	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?	Single Channel
	Feed Line Size	7 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power 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

#### **Other Antenna Cost Not Listed**

Name	Description
Reducer	6-75 x 7-75
Project Expenses	Other services

#### 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	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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.

#### Interim Antenna

#### **Other Antenna Costs**

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

Enter a list of RF channel numbers.

RF Channel Number		
31		
20		
45		

#### Interim Antenna

#### **Other Antenna Cost Not Listed**

Information not provided.

Transmission <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

## Primary Transmission Line

#### **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Purchase New  Primary (Main)  N/A  Owned  N/A  N/A  N/A  With No  tion? Yes  Rigid  7 3/16 inches  N/A  19 1/2
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
Evicting Transmission	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Primary (Main)  N/A  Owned  N/A  N/A  No  Yes  Rigid  7 3/16 inches  N/A
Existing Transmission	Manufacturer	Purchase New  Primary (Main)  N/A  Owned  N/A  No  Yes  Rigid  7 3/16 inches  N/A  19 1/2 inches  N/A
Line Manufacturer and Type	Туре	
	Diameter	
	Other Diameter	N/A
	Segment Length	
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	

#### **New Transmission Line**

**Primary** 

Transmissio	nsection	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
		Туре	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.

#### Other Transmission Line Expenses Not Listed

Primary Other Transmission Line Expenses Not Listed		t Listed
Transmissio	n Line Name	Description
	Project Expenses	Other services

#### Interim

#### **New Transmission Line**

Transmission	n section	Question	Response
	New Transmission Line Costs	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Туре	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.

#### Other Transmission Line Expenses Not Listed

Transmission	Name	Description	
	Interim Internal Transmission Line	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	Type of change	Modify Existing
Description	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	Do you have a tower registration number?	No
Structure Registration	ASR Number	
Coordinates (	Latitude (NAD83)	41° 42' 13.0" N-
NAD83 (North American Datum	Longitude (NAD83)	072° 49' 55.0" W-
of 1983))	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
1900	WZMX	FM
66465	WTIC-FM	FM
1910	WRCH	FM
14050	WCCT-TV	DTV
147	WTIC-TV	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	Candelabra
Helicopter Services Required	Are helicopter services required?	Yes

#### 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
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	695
	Explanation	Project management services by the transmitter manufacturer and tower landlord.
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	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
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
Jei vices	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
RF Field Engineering Services	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
Outside
Professional Services Expenses Not Listed
Professional Services © ostsided.

## Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
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	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
Other Miscellaneous Expenses	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	\$1,052,680.80	\$1,034,248.62		\$973,696.95	
Project Expenses	\$0.00	\$0.00	N/A	N/A	N/A
Mask Filter	\$44,385.24	\$44,385.24	Please see Estimated Cost Justification WEDH-110- 1st Primary Transmitter - Mask Filter v0	\$44,358.23	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$7,617.82	Please see Estimated Cost Justification WEDH-110- 1st Primary Transmitter - Transformer v0	\$7,617.81	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$885,929.38	\$885,929.38	see Estimated Cost Justification WEDH-110- 1st Primary Transmitter v1	\$885,929.35	N/A

4" Rigid Conduit and Wiring (Cost per foot)	\$10,100.00	\$9,600.00	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.	\$86,716.18	\$86,716.18	N/A	\$35,791.56	N/A
Sub-total	\$1,052,680.80	\$1,034,248.62	N/A	\$973,696.95	N/A
Total for all systems	\$3,344,411.40	\$3,010,386.09	N/A	\$2,192,247.22	N/A

#### Components

Actual Information Description	File Name
Project Expenses	Information not provided.

Mask Filter **Component Description:** WEDH-110-1st Primary Transmitter -Mask Filter \$9,654.17 Amount: **Component Description:** WEDH-110-1st Primary Transmitter -Mask Filter \$605.11 **Amount: Component Description:** WEDH-110-1st Primary Transmitter -Mask Filter **Amount:** \$3,300.00 **Component Description:** WEDH-110-1st Primary Transmitter -Mask Filter **Amount:** \$16,214.58

Component Description: WEDH-110-1st

Primary
Transmitter Mask Filter

**Amount:** \$14,584.37

Transformer 3 phase/480v -		
150 KVA	<b>Component Description:</b>	WEDH-110-1st
		Primary
		Transmitter -
		Transformer
	Amount:	\$2,498.93
	Component Description:	WEDH-110-1st
		Primary
		Transmitter -
		Transformer
	Amount:	\$4,997.86
	Component Description:	WEDH-110-1st
		Primary
		Transmitter -
		Transformer
	Amount:	\$121.02

UHF - Liquid Cooled Solid State Transmitter 31.7 kW

Component Description: ULXTE-50

Transmitter per Quote Q-79869

**Amount:** \$281,397.67

Component Description: ULXTE-50

Amount:

**Amount:** 

Amount:

Transmitter \$227,988.22

Component Description: Disconnects and

removals of equipment associated with the existing digital

transmitter \$3,960.00

Component Description: Demo & Removal

of equipment \$26,400.00

Component Description: ULXTE-50

Transmitter

**Amount:** \$46,700.00

**Component Description:** ULXTE-50

transmitter \$69,920.07

**Amount:** \$69,920.07

Component Description: ULXTE-50

**Amount:** \$229,563.39

4" Rigid Conduit and Wiring (Cost per foot)

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.

Component Description: Wiring for

additional pump

**Amount:** \$811.56

Component Description: Work done per

your purchase

order #4036 dated

4/29/2019.

**Amount:** \$34,980.00

## **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	\$138,630.00	\$132,400.00		\$0.00	
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
New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized	\$34,000.00	\$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
Primary Antenna TFU-16DSC- R C170	\$235,520.00	\$221,390.00		\$165,499.30	

Reducer	\$2,240.00	\$2,240.00	See attached quote from Dielectric supporting cost.	N/A	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
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
Project Expenses	\$0.00	\$0.00	N/A	N/A	N/A

Side mount brackets	\$23,150.00	\$17,752.00	Antenna is top-mounted	\$15,976.80	N/A
for high			on		
power			candelabra		
antennas			tower but is		
(if not			side		
included in			mounted in		
antenna			the bottom of		
base cost)			the stack of		
			the		
			candelabra		
			and		
			therefore		
			side-		
			mounted		
			brackets are		
			required (see		
			attached		
			quote from		
			Dielectric).		
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Sub-total	\$374,150.00	\$353,790.00	N/A	\$165,499.30	N/A
Total for all systems	\$3,344,411.40	\$3,010,386.09	N/A	\$2,192,247.22	N/A

#### Components

Actual Information Description	File Name
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized	Information not provided.

Sweep test of existing antenna	Component Description:	CT-Hartford- WEDH-Work on interim antenna option; memo - Professional Services
	Amount:	\$125.00
Reducer	Information not provided.	
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	WEDH Primary Antenna Elbow
	Amount:	Complex \$6,749.10
	Component Description:	WEDH Primary Antenna Elbow Complex
	Amount:	\$6,749.10
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Component Description:	Antenna - UHF Side/Pole Mount, Rigid
	Amount:	Transmission Line - Copper, etc. \$64,812.15
	Component Description: Amount:	Antenna - UHF side/pole mount \$64,812.15
		<b>40</b> 130 121 10

Side mount brackets for high power antennas (if not **Component Description:** WEDH Primary included in antenna base Antenna Side cost) **Mount Brackets** \$7,988.40 Amount: **Component Description:** WEDH Primary Antenna Side **Mount Brackets** Amount: \$7,988.40 Sweep test of existing antenna **Component Description: WEDH Primary** Antenna Sweep Test Amount: \$2,880.00 **Component Description: INCLUDES ONE** FIELD ENGINEER **ON-SITE FOR** ONE DAY Amount: \$640.00 **Component Description: WEDH Primary** Sweep Test \$2,880.00 **Amount:** 

### **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 Cos Justificatio
Interim Transmission Line	\$350,344.20	\$93,944.20		\$13,170.80	
Interim Internal Transmission Line	\$13,944.20	\$13,944.20	see Estimated Cost Justification WEDH-380- Interim Trans Line - Other Exps Not Listed v0	\$13,170.80	N/A
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
Primary Transmission Line	\$429,200.00	\$298,228.37		\$279,271.59	
Rigid Transmission Line - copper, 7 3 /16"	\$429,200.00	\$298,228.37	see Estimated Cost Justification WEDH-310- Primary Transmission Line - 7 3_16 Rigid Copper v0	\$279,271.59	N/A

Project Expenses	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$779,544.20	\$392,172.57	N/A	\$292,442.39	N/A
Total for all systems	\$3,344,411.40	\$3,010,386.09	N/A	\$2,192,247.22	N/A

### Components

Actual Information Description	File Name	
Interim Internal Transmission Line	Component Description: Amount:	FREIGHT AND SHIPPING \$892.27
	Component Description: Amount:	Flexible Transmission Line \$10,077.41
	Component Description: Amount:	Reducer 6-50 X 3- 50 W/CONN "QS \$1,615.00
	Component Description: Amount:	OTHER \$586.12
Rigid Transmission Line - copper, 6 1/8" broadband	Component Description:  Amount:	WEDH FCC Repack Ch 30 Interim transmission line installation \$2,398.00
Rigid Transmission Line - copper, 7 3/16"	Component Description: Amount:	TRANSMISSION LINE-RIGID \$2,448.00

Component Description: TRANSMISSION

LINE-RIGID \$1,674.00

**Component Description:** 

Chip out mortar

**Amount:** 

Amount:

\$347.60

**Component Description:** 

Freight and Shipping

Amount:

\$773.40

**Component Description:** 

Rigid Transmission

Line

Amount:

\$2,384.00

**Component Description:** 

OTHER Freight and

Shipping

Amount:

Amount:

Amount:

Amount:

Amount:

\$1,133.89

Component Description:

T/L 7-75 EIA

LENGTH 15' TO 20' FIXED FLG 1 END/

SWIVEL FLG 1 END

\$9,447.43

**Component Description:** 

TRANSMISSION

LINE-RIGID

\$5,659.26

**Component Description:** 

WEDH Primary

Transmission Line

\$127,423.44

**Component Description:** 

RIGID

**TRANSMISSION** 

LINE - COPPER

\$6,216.39

	Component Description: Amount:	WEDH Primary Transmission Line \$127,423.44
Project Expenses	Information not provided.	

### **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 Primary Tower	Predetermined Cost Estimate \$681,350.00	Estimated Cost \$803,700.00	Estimated Cost Justification	Actual Cost \$606,452.50	Actual Cos Justification
Tower Helicopter Lift	\$24,750.00	\$24,750.00	Please see attached Turris Engineering Quote 18-136- CO#3 and CPTV Purchase Order 4940	\$24,750.00	N/A
Tower Lease	\$65,000.00	\$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
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
Minor tower reinforcement /modifications	\$158,000.00	\$501,950.00	See Turris Engineering, Inc quote #18-0779- R2	\$401,588.50	N/A

Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$3,840.00	N/A
Sub-total	\$681,350.00	\$803,700.00	N/A	\$606,452.50	N/A
Total for all systems	\$3,344,411.40	\$3,010,386.09	N/A	\$2,192,247.22	N/A

### Components

Join poneme		
Actual Information Description	File Name	
Tower Helicopter Lift	Component Description:  Amount:	Additional Cost associated with Helicopter Lift and Required excess Liability Insurance. \$24,750.00
Tower Lease	Component Description:  Amount:	Interim Antenna - Tower Rent per Amendment \$65,000.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description:  Amount:	WEDH-410- Existing Primary Tower - Complex Tower - Tower Rigging and Equipment \$111,274.00
Minor tower reinforcement /modifications		

**Component Description:** 30% in progress

payments during

field installations

**Amount:** \$24,190.00

Component Description: Re: 18-0779

WEDH-TV
Antenna and

tower Modification

**Amount:** \$120,950.00

Component Description: Antenna and

tower Modification

**Amount:** \$48,380.00

Component Description: RE: 18-0779

WEDH-TV Antenna and tower Modification Farmington, CT.

**Amount:** \$48,380.00

Component Description: Antenna and

Tower

Modifications for Top Mounted Antenna \$9,800.00

**Amount:** \$9,800.00

Component Description: Antenna and T/L

Modification, Commsite Tower

**Amount:** \$3,162.50

Component Description: Weather Days for

the Month of April

**Amount:** \$5,750.00

Component Description:

Antenna and

tower modification

Amount:

\$120,950.00

**Component Description:** 

Weather days for

the month of May

2019

Amount:

\$10,350.00

**Component Description:** 

25% Down Payment due

upon Acceptance

of Order

Amount:

\$9,676.00

**Component Description:** 

Amount:

N/A

N/A

Structural engineering tower

load study for well documented tower

**Component Description:** 

Tower structural

analysis and

report.

**Amount:** \$3,840.00

### **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	\$254,768.50		\$102,332.85	
Additional Field Engineering Service, 2 Days	\$4,000.00	\$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	\$1,342.50	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,482.50	Estimated Cost Justification WEDH-550- Attorney - Negotiate Lease and Other Matters v0	\$4,482.50	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,268.00	per Estimated Cost Justification WEDH-550- Attorney - License to Cover Application	\$2,268.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	Main v0	\$3,207.00	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.	\$82,675.70	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,000.00	N/A

Perform         \$7,360.00         \$7,375.00         Du Treil Invoices         \$3,125.00         N/A           engineering study for new channel assignment and antenna development         \$2,630.00         \$2,500.00         N/A         \$1,032.65         N/A           Address transition timing and coordination issues w/ other stations and wireless         \$2,630.00         \$3,468.00         Professional Services invoices         \$3,106.50         N/A           Services reimbursement form         \$256,030.00         \$254,768.50         N/A         \$102,332.85         N/A           Total for all systems         \$3,344,411.40         \$3,010,386.09         N/A         \$2,192,247.22         N/A						
transition timing and coordination issues w/ other stations and wireless  Prepare and or \$2,630.00 \$3,468.00 Professional Sarvices invoices  Sub-total \$256,030.00 \$254,768.50 N/A \$102,332.85 N/A  Total for all \$3,344,411.40 \$3,010,386.09 N/A \$2,192,247.22 N/A	engineering study for new channel assignment and antenna	\$7,360.00	\$7,375.00		\$3,125.00	N/A
Services           reimbursement         invoices           form           Sub-total         \$256,030.00         \$254,768.50         N/A         \$102,332.85         N/A           Total for all         \$3,344,411.40         \$3,010,386.09         N/A         \$2,192,247.22         N/A	transition timing and coordination issues w/ other stations and	\$2,630.00	\$2,500.00	N/A	\$1,032.65	N/A
<b>Total for all</b> \$3,344,411.40 \$3,010,386.09 N/A \$2,192,247.22 N/A	review reimbursement	\$2,630.00	\$3,468.00	Services	\$3,106.50	N/A
	Sub-total	\$256,030.00	\$254,768.50	N/A	\$102,332.85	N/A
		\$3,344,411.40	\$3,010,386.09	N/A	\$2,192,247.22	N/A

### Components

Actual Information Description	File Name	
Additional Field Engineering Service, 2 Days	Component Description:  Amount:	Legal services rendered through November 30, 2018. \$93.00
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

Component Description: WEDH-550-

Attorney - Special

Temporary Authorization

**Amount:** \$216.00

Component Description: Invoice for legal

services, Email exchange J Mayo

**Amount:** \$1,080.00

Component Description: WEDH-550-

Attorney - Special

Temporary Authorization

**Amount:** \$46.50

Attorney Fees -Negotiation of lease and other matters for shared locations

Component Description: Invoice for legal

services rendered through May 31,

2019.

**Amount:** \$216.00

Component Description: Invoice for legal

services rendered through January

31, 2019.

**Amount:** \$486.00

Component Description: Transition progress

report

**Amount:** \$128.00

Component Description: Legal services

**Amount:** \$1,027.50

Component Description: WEDH-550-

Attorney -

Negotiate Lease and Other Matters

**Amount:** \$486.00

Component Description: Legal Services

**Amount:** \$2,139.00

Component Description: Attorney -

Negotiate Lease and Other Matters

**Amount:** \$128.00

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	WEDH-550- Attorney - License to Cover Application (Main)
	Amount:	\$162.00
	Component Description: Amount:	Legal services \$2,106.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description:	Prepare and file Construction Permit Application (Form 2100).
	Amount:	\$600.00
	Component Description:	WEDH-550- Attorney - Construction Permit Application (Main)
	Amount:	\$1,026.00
	Component Description:	Attorney - Construction Permit Application (Main)
	Amount:	\$372.00
	Component Description: Amount:	Legal Services \$1,209.00
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Project management of the transition		

**Component Description:** Project

Management

Amount:

\$2,479.60

**Component Description:** Project

Management

**Amount:** \$2,482.20

Component Description: Project

Management

**Amount:** \$942.50

**Component Description:** Project

Management

**Amount:** \$2,675.40

Component Description: Project

Management

**Amount:** \$1,577.50

Component Description: Project

Management

**Amount:** \$7,515.40

Component Description: Project

Management

**Amount:** \$3,531.30

Component Description: Project

Management

**Amount:** \$5,918.95

Component Description: Project

Management

**Amount:** \$5,422.10

Component Description: Project

Management

**Amount:** \$5,535.15

**Component Description:** Project

Management

**Amount:** \$3,493.55

Component Description: Project

Management

**Amount:** \$4,771.05

Component Description: Project

Management

**Amount:** \$2,608.50

Component Description: Project

Management

**Amount:** \$2,799.35

Component Description: Project

Management

**Amount:** \$257.70

Component Description: Project

Management

**Amount:** \$4,531.80

Component Description: Project

Management

**Amount:** \$4,377.95

Component Description: Project

Management

**Amount:** \$6,561.55

**Component Description:** Project

Management

Amount:

\$1,382.45

**Component Description:** Project

Management

Amount: \$4,373.70

**Component Description:** Project

Management

Amount: \$5,535.15

**Component Description:** Project

Management

Amount: \$4,738.70

**Component Description:** Project

Management

Amount:

\$4,699.30

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application

**Component Description:** CT Hartford-WEDH-

> Work on new CP app with share with

WEDY

\$1,000.00 Amount:

Perform engineering study for new channel assignment and antenna development

Component Description: CT New Haven-

Assist w/channel share-WEDH-App

/Мар

**Amount:** \$875.00

Component Description: CT Hartford-WEDH-

Early transition analysis/Phase 4

**Amount:** \$1,625.00

**Component Description:** Engineering study

work for new channel

assignment and

antenna development

**Amount:** \$2,000.00

Component Description: Engineering study

work for new

channel

assignment and

antenna development

**Amount:** \$500.00

Component Description: Engineering study

work for new

channel

assignment and

antenna development

**Amount:** \$125.00

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

Component Description: Professional

Services

**Amount:** \$230.40

Component Description: Work on draft

coordination letter

**Amount:** \$802.25

Component Description: Address transition

timing and coordination

**Amount:** \$39.00

Component Description: Address transition

timing and coordination.

**Amount:** \$172.50

Component Description: Transition timing

and coordination.

**Amount:** \$39.00

Prepare and or review reimbursement form

Component Description: Legal services for

preparing, reviewing and submitting FCC Reimbursement

Form 399

**Amount:** \$540.00

Component Description: Prepare and Review

**Amount:** \$93.00

Component Description: Prepare and Review

**Amount:** \$534.00

Component Description: Prepare and

Review

Reimbursement

Form

**Amount:** \$325.50

Component Description: Please Deny this

invoice

Amount: N/A

Component Description: Television

Repacking

Services - WEDH

**Amount:** \$627.00

Component Description: Legal Services

**Amount:** \$790.50

Component Description: Legal Services

**Amount:** \$325.50

Component Description: Legal Services

**Amount:** \$325.50

Component Description: WEDH Legal

Services

**Amount:** \$172.50

## **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	\$200,656.40	\$171,706.40		\$51,823.23	
Equipment Storage	\$15,000.00	\$15,000.00	N/A	\$7,985.08	N/A
AM Pattern Disturbance Impact study	\$7,890.00	\$540.00	see Estimated Cost Justification WEDH-610- AM Pattern Disturbance - Impact Study v0	\$540.00	N/A
Engineering and Administrative	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Site Security	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Insurance	\$18,150.00	\$18,150.00	Turris Engineering Proposal #50195000	\$18,150.00	N/A
MVPD Notification of Channel Change	\$11,000.00	\$11,000.00	N/A	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	\$6,000.00	\$6,000.00	N/A	\$54.00	N/A

Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$10,534.15	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$30,016.40	\$30,016.40	See attached quotes from D'Amato and Tri-S for justification.	\$6,760.00	N/A
Non-zoning permits	\$10,000.00	\$10,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$5,800.00	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
Local Zoning	\$15,000.00	\$15,000.00	N/A	\$0.00	N/A
Sub-total	\$200,656.40	\$171,706.40	N/A	\$51,823.23	N/A
Total for all systems	\$3,344,411.40	\$3,010,386.09	N/A	\$2,192,247.22	N/A

### Components

Actual Information	
Description	File Name

Equipment Storage		
	Component Description:	WEDH FCC
		Repack Ch 30
		Rental for 2
		storage containers
	Amount:	\$1,284.50
	Component Description:	WEDH FCC
		Repack Ch 30 Site
		prep for 2 storage containers
	Amount:	\$2,556.95
	Amount.	φ2,330.93
	Component Description:	Rental for (2)
	Component Description.	storage containers
	Amount:	\$753.39
		·
	Component Description:	Rental for 2
		storage containers
	Amount:	\$1,130.08
	Component Description:	Mobile Mini
	Amount:	\$1,130.08
	Component Description:	Rental for 2
	Component Description.	storage containers
		Mobile Mini
	Amount:	\$1,130.08
AM Pattern Disturbance		
Impact study		<b>-</b>
. ,	Component Description:	Television
	Amount:	Repacking Services \$540.00
	Amount.	ф <del>04</del> 0.00
	Information not provided.	
Engineering and	oauorot protiaca.	
Engineering and Administrative		

Insurance		
	Component Description:	Insurance
		Premium - WEDH
		FCC Repack Ch.
		30
	Amount:	\$18,150.00
MVPD Notification of		
Channel Change	Component Description:	WEDH MVPD
	Compension Decempes	Notification
	Amount:	\$2,000.00
		• ,
Develop and air		
announcement of upcoming	Component Description:	WEDH-610-
channel change		Develop and Air
		Channel Change
		Announcement
	Amount:	\$54.00
Equipment Delivery and		
Handling Charges	Component Description:	Schedule and pick
	Compension Decomposition	up trucks from
		Penske in Hartford
		bring to Bristol
		shop to stage for
		trip to S Portland,
		Maine
	Amount:	\$5,635.30
		¥ - , 3 - <del>-</del> 2
	Component Description:	Unload tractor
	,	trailer at shop
		נומווכו מנ אווטף

Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	Transportation and Disposal of 50/50 Mixture of Coolant Mixed with Distilled Water from
	Amount:	Farmington, CT \$1,445.00
	Component Description:  Amount:	Transportation and Disposal of 50/50 mixture of Dowtherm with Distilled water and Alpha 4 Heat transfer Fluid \$1,845.00
	Component Description:	Disconnects and removals of equipment associated with the existing analog
	Amount:	transmitter \$3,470.00
Non-zoning permits	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	WEDH Medical Notification \$5,800.00
AM Pattern Disturbance Remedy	Information not provided.	

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,344,411.40	\$3,010,386.09	\$2,192,247.22

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

Section Question Response

### Submission of Estimated Expenses Statements

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.

- 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.

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 abovenamed applicant for the Authorization(s) specified above.

### Meg Sakellarides

Chief Financial Officer

09/23/2020

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (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).

- 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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 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.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 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.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Meg Sakellarides Chief Financial Officer

09/23/2020

#### **Attachments**