

Federal Communications Commission

# (REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: File Number:	13602 000002	Service: <b>DTV</b> 8127	Call Sign:	WEDH	Channel: <b>45 (UHF)</b>
FRN: <b>00</b>	03574662	Date Submitted:	11/29 /2020		

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

# Applicant Information

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

#### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email
	The Preparer is same as the reimbursement contact.			

Broadcaster	Question
Information	
and	
Transition	
Plan	

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

Primary	Existing Transmitter Infor	mation			
Transmitter	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			
	Manufacturer and Type	Model	DCX Paragon MSDC-IOT		
		Year	2008		
		Туре	Inductive Output Tube		
		IOT Power Type	Two		
		Power Capacity	36 kW		

# **Existing Transmitter Information**

Primary	New Transmitter Costs			
Transmitter	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	Other Transmitter Costs	ner Transmitter Costs		
Transmitter	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

# Primary Transmitter Other Transmitter Cost Not Listed Name Description Mask Filter 8-Pole Mask Filter Project Expenses Other services

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary Antenna	Existing Antenna Information			
	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	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

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?	Yes	
		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	Elliptical	
		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	N/A	
		ERP: (Effective Radiated Power)	365.0 kW	
		Manufacturer		
			1	

Model
Year
Justification for New Antenna

Primary	Other Antenna Costs		
Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
		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

# Primary Antenna

# Other Antenna Cost Not Listed

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

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	InterimN/APurchase NewOwnedOwnedYesYesYesFull Power	
		Polarization	Horizontal	
		Туре		
		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

#### **Other Antenna Costs** Interim Antenna Section Question Response **Combiner for Shared** Do you need a Combiner for a Shared Yes Antenna Antenna? Туре New 3 Number of channels supported Frequencies of channels supported **RF** channel Frequency N/A Do you need a combiner output splitter No /switcher for dual feed lines? **Elbow Complex** Do you require the separate purchase of Yes the Elbow Complex? В Broadband or Single Channel? Feed Line Size 6 1/8 inches Do you require the separate purchase of **Side Mount Brackets** No side mount brackets for an antenna? **Pattern Scatter Analysis** Do you require separate purchase of No pattern scatter analysis for a side mount high or medium power antenna? Yes Sweep Test Do you require the sweep testing of transmission line and antenna?

Enter a list of RF channel numbers.

RF Channel Number	
31	
20	
45	

# Interim Other Antenna Cost Not Listed

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary	Existing Transmission Line			
Transmissio	n Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission	Manufacturer		
	Line Manufacturer and Type	Туре	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			
Transmissio	on Section New Transmission Line Costs	Question	Response	
		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.	

Primary Other Transmission Line Expenses No		t Listed
Transmissio	n Line	Description
	Project Expenses	Other services

Interim	New Transmission Line		
Transmissio	n section	Question	Response
	New Transmission Line	Use	Interim
	Costs	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.

# Interim Other Transmission Line Expenses Not Listed

Transmissio	n Line	Description	
	Interim Internal Transmission Line	Andrews Flexible Air Line, 4in at 80 feet with Reducer & Estimated Freight	

Tower	Section	Question	Response
Equipment And Rigging Costs	Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

# Primary Existing Tower

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

# Primary 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 Rigging Costs

Tower

Tower

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

# Other Tower Expenses Not Listed

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	Section	Question	Response
Professional	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
	Services	For Auxiliary Facility	No
		For Main Facility	Yes
			management services by the transmitter manufacturer and tower landlord. Yes Yes Yes Yes Yes Yes Yes Yes Yes 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.

Other Professional Services Expenses Not Listed Professional Services roostsided.

Other	Section	Question	Response
Expenses	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 Not Listed

Other Expenses

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

# Transmitters

# Cost Information

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

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-50	\$1,052,680.80	\$1,034,248.62		\$973,696.95	
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
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
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

Other	\$86,716.18	\$86,716.18	N/A	\$35,791.56	N/A
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.					
pridoc.					
4" Rigid	\$10,100.00	\$9,600.00	N/A	N/A	N/A
Conduit and					
Wiring					
(Cost per					
foot)					
Sub-total	\$1,052,680.80	\$1,034,248.62	N/A	\$973,696.95	N/A
Total for all systems	\$3,571,411.40	\$2,989,575.09	N/A	\$2,247,603.00	N/A

# Components

Actual Information	
Description	File Name

UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description: Amount:	ULXTE-50 Transmitter \$227,988.22
	Component Description: Amount:	Disconnects and removals of equipment associated with the existing digital transmitter \$3,960.00
		•
	Component Description:	ULXTE-50 Transmitter per Quote Q-79869
	Amount:	\$281,397.67
	Component Description: Amount:	ULXTE-50 \$229,563.39
	Component Description: Amount:	Demo & Removal of equipment \$26,400.00
	Component Description: Amount:	ULXTE-50 transmitter \$69,920.07
	Component Description: Amount:	ULXTE-50 Transmitter \$46,700.00

Transformer 3 phase/480v - 150 KVA	Component Description:	WEDH-110-1st Primary Transmitter - Transformer
	Amount:	\$121.02
	Component Description:	WEDH-110-1st Primary Transmitter - Transformer
	Amount:	\$4,997.86
	Component Description:	WEDH-110-1st Primary Transmitter - Transformer
	Amount:	\$2,498.93
Project Expenses	Information not provided.	

#### Mask Filter

Component Description: Amount:	WEDH-110-1st Primary Transmitter - Mask Filter \$9,654.17
Component Description:	WEDH-110-1st Primary Transmitter - Mask Filter
Component Description:	\$14,584.37 WEDH-110-1st Primary Transmitter -
Amount:	Mask Filter \$16,214.58
Component Description:	WEDH-110-1st Primary Transmitter - Mask Filter
Amount:	\$3,300.00
Component Description:	WEDH-110-1st Primary Transmitter -
Amount:	Mask Filter \$605.11

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: Amount:	Work done per your purchase order #4036 dated 4/29/2019. \$34,980.00
	Component Description:	Wiring for additional pump
	Amount:	\$811.56
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

# Antennas

# Cost Information

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Interim Antenna TFU-WB16	\$138,630.00	\$132,400.00		\$0.00	
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
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
Primary Antenna TFU-16DSC- R C170	\$462,520.00	\$200,579.00		\$182,956.60	

Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$14,998.00	Dielectric Quote 800211CMZ- 3A	\$14,980.60	N/A
UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$29,564.70	Please see Dielectric Order Confirmation 1696757, less amount already forwarded for payment in superseded category	\$14,222.90	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$129,624.30	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$129,624.30	N/A
Reducer	\$2,240.00	\$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).	\$17,728.80	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Project Expenses	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$601,150.00	\$332,979.00	N/A	\$182,956.60	N/A
Total for all systems	\$3,571,411.40	\$2,989,575.09	N/A	\$2,247,603.00	N/A

# Components

Actual Information Description	File Name	
Sweep test of existing antenna	Component Description: Amount:	CT-Hartford- WEDH-Work on interim antenna option; memo - Professional Services \$125.00

NI 11 1		
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.	
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized	Information not provided.	
Elbow complex, single		
channel, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	WEDH-210- Primary Antenna - Elbow Complex, 7
	Amount:	3/16" \$1,482.40
	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 antenna 200-500 kW, elliptically or	Component Description:	Antenna UHF Side /Pole Mount
circularly polarized	Amount:	\$14,222.90

UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Component Description: Amount:	Antenna - UHF side/pole mount \$64,812.15
	Component Description:	Antenna - UHF Side/Pole Mount, Rigid Transmission Line - Copper, etc.
	Amount:	\$64,812.15
Reducer	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:	WEDH-210- Primary Antenna - Side Mount
	Amount:	Brackets \$1,752.00
	Component Description:	WEDH Primary Antenna Side Mount Brackets
	Amount:	\$7,988.40
	Component Description:	WEDH Primary Antenna Side
	Amount:	Mount Brackets \$7,988.40

Sweep test of existing antenna	Component Description:	INCLUDES ONE
		FIELD ENGINEER
		ON-SITE FOR
		ONE DAY
	Amount:	\$640.00
	Component Description:	WEDH Primary
		Antenna Sweep
		Test
	Amount:	\$2,880.00
	Component Description:	WEDH Primary
		Sweep Test
	Amount:	\$2,880.00
Project Expenses	Information not provided.	

## **Transmission Line**

### Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$350,344.20	\$93,944.20		\$15,568.80	
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.	\$2,398.00	N/A
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
Primary Transmission Line	\$429,200.00	\$298,228.37		\$296,853.57	
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	\$296,853.57	N/A

Project Expenses	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$779,544.20	\$392,172.57	N/A	\$312,422.37	N/A
Total for all systems	\$3,571,411.40	\$2,989,575.09	N/A	\$2,247,603.00	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 6 1/8" broadband	Component Description: Amount:	WEDH FCC Repack Ch 30 Interim transmission line installation \$2,398.00
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, 7 3/16"	Component Description: Amount:	Freight, Shipping, and Handling \$5,170.00

Component Description: Amount:	TRANSMISSION LINE-RIGID \$1,674.00
Component Description: Amount:	Chip out mortar \$347.60
Component Description: Amount:	Freight and Shipping \$773.40
Component Description: Amount:	Rigid Transmission Line \$2,384.00
Component Description: Amount:	OTHER Freight and Shipping \$1,133.89
Component Description: Amount:	TRANSMISSION LINE-RIGID \$5,659.26
Component Description: Amount:	WEDH-310-Primary Transmission Line - 7 3/16" Rigid Copper \$6,752.72
Component Description: Amount:	TRANSMISSION LINE-RIGID \$2,448.00
Component Description: Amount:	WEDH Primary Transmission Line \$127,423.44

	Component Description:	RIGID TRANSMISSION LINE - COPPER
	Amount:	\$6,216.39
	Component Description:	T/L 7-75 EIA LENGTH 15' TO 20' FIXED FLG 1 END/ SWIVEL FLG 1 END
	Amount:	\$9,447.43
	Component Description:	WEDH Primary Transmission Line
	Amount:	\$127,423.44
Project Expenses	Information not provided.	

## **Tower Equipment and Rigging Costs**

### Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justification
Primary Tower TOWER	\$681,350.00	\$803,700.00		\$606,452.50	
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	\$3,571,411.40	\$2,989,575.09	N/A	\$2,247,603.00	N/A

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: Amount:	30% in progress payments during field installations \$24,190.00
Component Description: Amount:	Antenna and tower modification \$120,950.00
Component Description:	RE: 18-0779 WEDH-TV Antenna and tower Modification Farmington, CT. \$48,380.00
Component Description: Amount:	Antenna and tower Modification \$48,380.00
Component Description:	Antenna and Tower Modifications for Top Mounted
Amount:	Antenna \$9,800.00
Component Description: Amount:	N/A N/A
Component Description: Amount:	Weather days for the month of May 2019 \$10,350.00

Structural engineering tower load study for well documented tower	Component Description: Amount:	Tower structural analysis and report. \$3,840.00
	Component Description: Amount:	Weather Days for the Month of April \$5,750.00
	Component Description: Amount:	25% Down Payment due upon Acceptance of Order \$9,676.00
	Component Description: Amount:	Re: 18-0779 WEDH-TV Antenna and tower Modification \$120,950.00
	Component Description: Amount:	Antenna and T/L Modification, Commsite Tower \$3,162.50

## **Outside Professional Services**

#### Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatior
Outside Professional Services	\$256,030.00	\$254,768.50		\$120,251.35	
Project management of the transition	\$109,810.00	\$114,675.00	Please see quotes.	\$98,555.20	N/A
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

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
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,000.00	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 Main v0	\$2,268.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$3,207.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,375.00	Du Treil Invoices	\$5,125.00	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$1,071.65	N/A
Prepare and or review reimbursement form	\$2,630.00	\$3,468.00	Professional Services invoices	\$3,106.50	N/A
Sub-total	\$256,030.00	\$254,768.50	N/A	\$120,251.35	N/A
Total for all systems	\$3,571,411.40	\$2,989,575.09	N/A	\$2,247,603.00	N/A

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$2,160.35
	Component Description: Amount:	Project Management \$2,479.60
	Component Description: Amount:	Project Management \$1,382.45
	Component Description: Amount:	Project Management \$1,577.50
	Component Description: Amount:	Project Management \$3,238.10

**Component Description:** Project Management \$5,535.15 Amount: **Component Description:** Project Management Amount: \$3,493.55 **Component Description:** Project Management Amount: \$3,081.20 **Component Description:** Project Management Amount: \$3,051.40 **Component Description:** Project Management Amount: \$4,348.45 **Component Description:** Project Management Amount: \$2,608.50 **Component Description:** Project Management Amount: \$2,482.20 Project **Component Description:** Management \$5,535.15 Amount: **Component Description:** Project Management Amount: \$4,771.05

**Component Description:** Project Management \$3,531.30 Amount: **Component Description:** Project Management Amount: \$2,799.35 **Component Description:** Project Management Amount: \$7,515.40 **Component Description:** Project Management Amount: \$4,377.95 **Component Description:** Project Management Amount: \$2,675.40 **Component Description:** Project Management Amount: \$257.70 **Component Description:** Project Management Amount: \$6,561.55 **Component Description:** Project Management \$5,918.95 Amount: **Component Description:** Project Management Amount: \$4,373.70

	Component Description:	Project
	Amount:	Management \$4,531.80
	Component Description:	Project
		Management
	Amount:	\$942.50
	Component Description:	Project
		Management
	Amount:	\$4,699.30
	Component Description:	Project
		Management
	Amount:	\$5,422.10
	Component Description:	Project
		Management
	Amount:	\$4,738.70
Additional Field Engineering Service, 2		
Days	Component Description:	Legal services rendered throug
		November 30,
		2018.
	Amount:	\$93.00
RF Exposure	Information not provided.	
Measurements		
Comprehensive coverage	Information not provided.	
verification via field study,		

Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount:	WEDH-550- Attorney - Special Temporary Authorization \$216.00
	Component Description:	Invoice for legal services, Email exchange J Mayo
	Amount:	\$1,080.00
	Component Description:	WEDH-550- Attorney - Special Temporary
	Amount:	Authorization \$46.50

	a	
Attorney Fees -		
Negotiation of lease and other matters for shared	Component Description:	Invoice for legal services rendered
locations		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:	
	Component Description: Amount:	Legal services \$1,027.50
	Component Description:	WEDH-550-
		Attorney -
		Negotiate Lease
		and Other Matters
	Amount:	\$486.00
		<b>N</b>
	Component Description:	Attorney -
		Negotiate Lease and Other Matters
	Amount:	\$128.00
		÷
	Component Description:	Legal Services
	Amount:	\$2,139.00
Prepare request for	Information not provided.	
Special Temporary Authorization		

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
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
	Amount:	\$1,000.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	WEDH-550- Attorney - License to Cover
	Amount:	Application (Main) \$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
	Amount:	2100). \$600.00
	Component Description:	WEDH-550- Attorney -
	Amount:	Construction Permit Application (Main) \$1,026.00
	Component Description:	Legal Services \$1,209.00
	Component Description:	Attorney - Construction Permit Application (Main)
	Amount:	\$372.00

Perform engineering study for new channel assignment and antenna development	Component Description:	Engineering study work for new channel assignment and antenna
	Amount:	development \$2,000.00
	Component Description:	CT Hartford-WEDF Early transition analysis/Phase 4
	Amount:	\$1,625.00
	Component Description:	CT New Haven- Assist w/channel share-WEDH-App /Map
	Amount:	\$875.00
	Component Description:	Engineering study work for new channel assignment and antenna
	Amount:	development \$125.00
	Component Description:	Engineering study
		work for new channel assignment and
	Amount:	antenna development \$500.00

Address transition timing and coordination issues w/ other stations and wireless	Component Description:	Transition timing
	Amount:	and coordination. \$39.00
	Component Description:	Work on draft coordination letter
	Amount:	\$802.25
	Component Description:	Address transition timing and coordination.
	Amount:	\$172.50
	Component Description:	Address transition timing and coordination
	Amount:	\$39.00
	Component Description:	Professional Services
	Amount:	\$230.40
Prepare and or review reimbursement form	Component Description:	Legal services for
		preparing, reviewing and submitting FCC Reimbursement
	Amount:	Form 399 \$540.00
	Component Description: Amount:	Prepare and Review \$93.00
	Amount.	<b>.</b>

Component Description: Amount:	Television Repacking Services - WEDH \$627.00
Component Description: Amount:	Please Deny this invoice N/A
Component Description: Amount:	Prepare and Review Reimbursement Form \$325.50
Component Description: Amount:	WEDH Legal Services \$172.50
Component Description: Amount:	Legal Services \$325.50
Component Description: Amount:	Legal Services \$790.50
Component Description: Amount:	Legal Services \$325.50

## **Other Expenses**

### Cost Information

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	
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 Storage	\$15,000.00	\$15,000.00	N/A	\$7,985.08	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

Total for all	\$3,571,411.40	\$2,989,575.09	N/A	\$2,247,603.00	N/A
Sub-total	\$200,656.40	\$171,706.40	N/A	\$51,823.23	N/A
			- Impact Study v0		
			Disturbance		
			AM Pattern		
			WEDH-610-		
,,			Justification		
Impact study			Cost		
Disturbance	\$7,890.00	\$540.00	see Estimated	\$540.00	IN/A
AM Pattern	¢7 000 00	¢540.00	000	¢540.00	N/A
			from WTIC.		
			request		
			by a		
Remedy			duplicated		
Disturbance			by FCC as it is		
AM Pattern	\$21,050.00	\$0.00	Disallowed	N/A	N/A
Notification					
Facility	ψ11,330.00	φ11,000.00		ψ0,000.00	
DTV Medical	\$11,550.00	\$11,000.00	N/A	\$5,800.00	N/A
Local Zoning	\$15,000.00	\$15,000.00	N/A	\$0.00	N/A
permits					
Non-zoning	\$10,000.00	\$10,000.00	N/A	N/A	N/A

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

MVPD Notification of Channel Change	Component Description:	WEDH MVPD 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 Storage		
	Component Description:	WEDH FCC Repack Ch 30
	Amount:	Rental for 2 storage containers \$1,284.50
	Component Description: Amount:	Rental for (2) storage containers \$753.39
	Component Description: Amount:	Rental for 2 storage containers \$1,130.08
	Component Description:	WEDH FCC Repack Ch 30 Site prep for 2 storage
	Amount:	containers \$2,556.95
	Component Description: Amount:	Mobile Mini \$1,130.08
	Component Description:	Rental for 2 storage containers Mobile Mini
	Amount:	\$1,130.08

Equipment Delivery and Handling Charges		
Handling Charges	Component Description:	Unload tractor
		trailer at shop
	Amount:	\$4,898.85
	Component Description:	Schedule and pick up trucks from Penske in Hartford, bring to Bristol shop to stage for trip to S Portland,
	Amount:	Maine \$5,635.30
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 Farmington, CT
	Amount:	\$1,445.00
	Component Description:	Transportation and Disposal of 50/50 mixture of Dowtherm with Distilled water and Alpha 4 Heat transfer Fluid
	Amount:	\$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.	

Notification	Component Description:	WEDH Medical Notification
	Amount:	\$5,800.00
AM Pattern Disturbance Remedy	Information not provided.	
AM Pattern Disturbance		
Impact study	<b>Component Description:</b>	Television
		Repacking Services
	Amount:	\$540.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,571,411.40	\$2,989,575.09	\$2,247,603.00

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

Certification	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.	
		<ol> <li>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>The above-named entity acknowledges that all certifications and attached</li> </ol>	
		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).
- 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 11/29/2020

Certification	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).	
		<ol> <li>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> </ol>	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Meg Sakellarides Chief Financial Officer 11/29/2020

#### Attachments

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