



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **13594** | Service: **DTV** | Call **WEDW** | Channel: **21 (UHF)**  
 ID: | Sign:  
 File **0000027937**  
 Number:  
 FRN: **0003574662** | Date **08/25**  
 Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

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

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

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

## Broadcaster Information and Transition Plan

Question	Response
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<p>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.</p>	<p>No</p>
<p>Briefly describe transition plan</p>	<p>Purchase of a new transmitter, new transmission line, and new antenna. Current transmitter cannot be retuned to the new channel. Interim antenna and interim transmission line are planned during transition to main antenna.</p>

<b>Transmitters</b>	<b>Section</b>	<b>Question</b>	<b>Response</b>
		<p><b>Transmitter Related Expenses</b></p>	<p>Do you have transmitter related expenses?</p>

**Primary  
Transmitter**

**Existing Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	Ultimate TDU2 5K00LV
	Year	2002
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	5 kW

**Primary Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-16
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10.8 kW
	Justification for New Transmitter	Comark, the manufacturer, has indicated that the existing transmitter cannot be retuned to meet the new channel requirement. The existing transmitter is channel-specific.

**Primary Transmitter**

**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 3-phase 208V and wiring for 480 3-phase.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary  
Transmitter**

**Other Transmitter Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>RF Line 3 and one eighth inches</b>	Internal transmission line and RF system including elbow complex
<b>Mask Filter</b>	8-Pole Mask Filter

**Antennas**

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	170.0 kW



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Manufacturer	
Model	TFU-20JDAS/P
Year	1980

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**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
	<b>New Antenna Manufacturer and Types</b>	Class
Mounting		Top Mount
Antenna position in stack		Top
Polarization		Horizontal
Type		Slotted Coaxial
Number of Stations Supported		N/A
Number of Panels/Bays		N/A
Lower Limit		N/A
Upper Limit		N/A
Design power capacity in use		N/A
Other Antenna Type		N/A
ERP: (Effective Radiated Power) .....		96.6 kW
Manufacturer		

Model	TFU-15JTH-R P230
Year	2019
Justification for New Antenna	Existing antenna is single channel and is channel-specific. Per Dielectric, the quoted antenna (see quote) is a high-power top-mount antenna and Dielectric does not make an antenna lower than 200kw that is top mounted. This is a like for like exchange.

**Primary Antenna**

**Other Antenna Costs**

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

	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	4 1/16 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary Antenna**

**Other Antenna Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Project Expenses</b>	Other services
<b>Rubbing Shoe</b>	4-50/6 CONN QS
<b>Spring Assy Watch Band</b>	Spring Assy Watch Band Assy 1.38 ID QS
<b>Reducer</b>	Reducer 4-50 EIA X 3-50 STD QS
<b>Screw Shoulder</b>	1/4-20 5/16 DIA

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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)	165.0 kW
	Manufacturer	
	Model	TFU- 12DSB-J R
Year	2019	

Justification for New Antenna	In order to complete the project, an interim antenna is necessary while the main antenna is being replaced.
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**Interim Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Interim Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission  
Line**

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

**Primary  
Transmission  
Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	600 feet per run



**Primary  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	600 feet per run

Justification for New Transmission Line

Dielectric has indicated that the existing WR1500 motorized four-port switch and the existing WR1500 waveguides and adapters used both inside and outside to the horizontal run to the tower base will not work on channel 21.

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

Name	Description
Project Expenses	Other services

**Interim  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	4 1/16 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	80 feet per run
	Justification for New Transmission Line	In order to complete the project, an interim transmission line is necessary while the main antenna is being replaced.

**Interim  
Transmission  
Line**

**Other Transmission Line Expenses Not Listed**

Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1205267
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 16' 44.3" N-
	Longitude (NAD83)	073° 11' 06.4" W-
	Overall Structure Height	491.14 feet
	Support Structure Height	459.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	520.01 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Pinnacle Towers LLC
Date Constructed	06/01/1953

**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
48721	WEZN-FM	FM
58515	WSHU-FM	FM

**Other Types of Users**

Users
Cell Providers

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

**Primary Tower**

**Other Tower Expenses Not Listed**

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

**Outside Professional Services Costs**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	695
	Explanation	The transmitter manufacturer will project manage the project.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes

	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

**Other Professional Services Expenses Not Listed**

**Outside Professional Services Costs**

Name	Description
Project Expenses	See attached detailed estimate

**Other Expenses**

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes



**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
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
<b>Primary Transmitter ULXTE-16</b>	<b>\$573,929.30</b>	<b>\$395,983.05</b>		<b>\$244,395.56</b>	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$337,054.39	N/A	\$224,269.14	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$5,549.36	Please see quote Q-79872. This is a 75 KVA transformer, documented at 150 KVA due to lowest available in LMS.	\$0.00	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 3-phase 208V and wiring for 480 3-phase.	<b><i>\$15,000.00</i></b>	\$15,000.00	See attached quote for electrical service.	\$5,150.00	N/A
RF Line 3 and one eighth inches	<b><i>\$6,314.65</i></b>	\$6,314.65	Please see attached quote Q-79872	N/A	N/A
Mask Filter	<b><i>\$22,464.65</i></b>	\$22,464.65	Please see attached quote Q-79872.	\$14,976.42	N/A
<b>Sub-total</b>	\$573,929.30	\$395,983.05	N/A	\$244,395.56	N/A
<b>Total for all systems</b>	\$1,716,402.49	\$1,376,631.49	N/A	\$438,275.43	N/A

### Components

Actual Information	
Description	File Name

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<p><b>Component Description:</b> 1/3 payment - ULXTE-16 Transmitter</p> <p><b>Amount:</b> \$112,134.57</p> <p><b>Component Description:</b> ULXTE-16 Transmitter down payment</p> <p><b>Amount:</b> \$46,870.00</p> <p><b>Component Description:</b> ULXTE-16 Transmitter</p> <p><b>Amount:</b> \$65,264.57</p>
Transformer 3 phase/480v - 150 KVA	Information not provided.
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 3-phase 208V and wiring for 480 3-phase.	<p><b>Component Description:</b> Work done at the Trumbull location</p> <p><b>Amount:</b> \$5,150.00</p>
RF Line 3 and one eighth inches	Information not provided.

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Mask Filter

**Component Description:** WEDW-110-1st  
Primary  
Transmitter -  
Mask Filter  
**Amount:** \$7,488.21

**Component Description:** WEDW-110-1st  
Primary  
Transmitter -  
Mask Filter  
**Amount:** \$4,358.21

**Component Description:** 1st Primary  
Transmitter -  
Mask Filter  
**Amount:** \$3,130.00

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**Cost Information**

**Antennas**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TFU-12DSB-J R</b>	<b>\$119,280.00</b>	<b>\$64,296.00</b>		<b>\$61,596.00</b>	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$50,012.00	Please see quote 800258CMZ-2. This cost includes estimated freight.	\$47,412.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,300.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$7,884.00	Please see Dielectric quote 800258CMZ-2	\$7,884.00	N/A
<b>Primary Antenna TFU-15JTH-R P230</b>	<b>\$283,738.19</b>	<b>\$194,423.19</b>		<b>\$0.00</b>	
Screw Shoulder	<i>\$78.75</i>	\$78.75	N/A	N/A	N/A

Rubbing Shoe	<b><i>\$288.75</i></b>	\$288.75	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$161,000.00	See Attached quote from Dielectric, the antenna manufacturer.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N/A
Reducer	<b><i>\$1,860.00</i></b>	\$1,860.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$6,585.00	N/A	N/A	N/A
Project Expenses	<b><i>\$17,134.44</i></b>	\$17,134.44	N/A	N/A	N/A
Spring Assy Watch Band	<b><i>\$1,076.25</i></b>	\$1,076.25	N/A	N/A	N/A
<b>Sub-total</b>	\$403,018.19	\$258,719.19	N/A	\$61,596.00	N/A
<b>Total for all systems</b>	\$1,716,402.49	\$1,376,631.49	N/A	\$438,275.43	N/A

## Components

Actual Information	
Description	File Name

<p>UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized</p>	<p><b>Component Description:</b> FREIGHT, SHIPPING, AND HANDLING <b>Amount:</b> \$561.60</p>
	<p><b>Component Description:</b> UHF- SIDE MOUNT <b>Amount:</b> \$18,403.20</p>
	<p><b>Component Description:</b> UHF - Side Mount One Station Antenna <b>Amount:</b> \$14,223.60</p>
	<p><b>Component Description:</b> UHF Side Mount One Station Antenna <b>Amount:</b> \$14,223.60</p>
<p>Sweep test of existing antenna</p>	<p><b>Component Description:</b> Sweep &amp; Pulse and undetermined length of flexible Transmission Line located at the WEDW-DT Transmitter site <b>Amount:</b> \$2,460.00</p>
	<p><b>Component Description:</b> WEDW-280- Interim Antenna - Sweep Test <b>Amount:</b> \$1,920.00</p>
	<p><b>Component Description:</b> WEDW-280- Interim Antenna - Sweep Test <b>Amount:</b> \$1,920.00</p>



<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<p><b>Component Description:</b> WEDW-280-Interim Antenna - Custom Side Mount Bracket</p> <p><b>Amount:</b> \$93.60</p> <p><b>Component Description:</b> WEDW-280-Interim Antenna - Custom Side Mount Bracket</p> <p><b>Amount:</b> \$3,060.00</p> <p><b>Component Description:</b> WEDW-280-Interim Antenna - Custom Side Mount Bracket</p> <p><b>Amount:</b> \$2,365.20</p> <p><b>Component Description:</b> WEDW-280-Interim Antenna - Custom Side Mount Bracket</p> <p><b>Amount:</b> \$2,365.20</p>
<p>Screw Shoulder</p>	<p>Information not provided.</p>
<p>Rubbing Shoe</p>	<p>Information not provided.</p>
<p>UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized</p>	<p>Information not provided.</p>
<p>Sweep test of existing antenna</p>	<p>Information not provided.</p>
<p>Reducer</p>	<p>Information not provided.</p>
<p>Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)</p>	<p>Information not provided.</p>
<p>Project Expenses</p>	<p>Information not provided.</p>

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Spring Assy Watch Band

Information not provided.

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**Cost Information**

**Transmission Line**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Transmission Line</b>	<b>\$11,360.00</b>	<b>\$32,994.50</b>		<b>\$31,977.50</b>	
Rigid Transmission Line - copper, 4 1/16"	\$11,360.00	\$32,994.50	Dielectric quote 800258CMZ-2	\$31,977.50	N/A
<b>Primary Transmission Line</b>	<b>\$90,930.00</b>	<b>\$50,461.00</b>		<b>\$0.00</b>	
Rigid Transmission Line - copper, 4 1/16"	\$85,200.00	\$44,731.00	See attached quote for transmission line.	N/A	N/A
Project Expenses	<i>\$5,730.00</i>	\$5,730.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$102,290.00</b>	<b>\$83,455.50</b>	N/A	<b>\$31,977.50</b>	N/A
<b>Total for all systems</b>	<b>\$1,716,402.49</b>	<b>\$1,376,631.49</b>	N/A	<b>\$438,275.43</b>	N/A

**Components**

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 4 1/16"	<p><b>Component Description:</b> WEDW-380-Interim Transmission Line - 4 1/16" Air Dielectric</p> <p><b>Amount:</b> \$11,796.00</p>
Rigid Transmission Line - copper, 4 1/16"	<p><b>Component Description:</b> WEDW-380-Interim Transmission Line - 4 1/16" Air Dielectric</p> <p><b>Amount:</b> \$384.80</p>
Rigid Transmission Line - copper, 4 1/16"	<p><b>Component Description:</b> WEDW-380-Interim Transmission Line - 4 1/16" Air Dielectric</p> <p><b>Amount:</b> \$9,898.35</p>
Rigid Transmission Line - copper, 4 1/16"	<p><b>Component Description:</b> WEDW-380-Interim Transmission Line - 4 1/16" Air Dielectric</p> <p><b>Amount:</b> \$9,898.35</p>
Rigid Transmission Line - copper, 4 1/16"	Information not provided.
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	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Tower TOWER</b>	<b>\$155,715.00</b>	<b>\$151,515.00</b>		<b>\$5,000.00</b>	
Tower Lease	<i>\$71,515.00</i>	\$71,515.00	N/A	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	\$5,000.00	N/A
<b>Sub-total</b>	<b>\$155,715.00</b>	<b>\$151,515.00</b>	<b>N/A</b>	<b>\$5,000.00</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$1,716,402.49</b>	<b>\$1,376,631.49</b>	<b>N/A</b>	<b>\$438,275.43</b>	<b>N/A</b>

**Components**

Actual Information Description	File Name
Tower Lease	Information not provided.
Short Tower (less than 500')	<p><b>Component Description:</b> Structural Analysis</p> <p><b>Amount:</b> \$5,000.00</p>

**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
<b>Outside Professional Services</b>	<b>\$274,900.00</b>	<b>\$280,958.75</b>		<b>\$62,269.40</b>	
Project Expenses	<i>\$14,980.00</i>	\$14,980.00	See attached detailed estimate	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$11,722.25	see Estimated Cost Justification WEDW-550-Attorney - Negotiate Lease and Other Matters v1	\$11,452.25	N/A
Project management of the transition	\$109,810.00	\$114,675.00	Widality Strategic Support Quote	\$40,049.15	N/A
Prepare and or review reimbursement form	\$2,630.00	\$3,151.50	Professional Services Invoices	\$2,251.50	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$211.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,125.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$4,180.00	see Estimated Cost Justification WEDW-530-RF Eng - Special Temporary Authorization v0	\$4,180.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$0.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$274,900.00	\$280,958.75	N/A	\$62,269.40	N/A
<b>Total for all systems</b>	\$1,716,402.49	\$1,376,631.49	N/A	\$438,275.43	N/A

## Components

Actual Information	
Description	File Name
Project Expenses	Information not provided.



Comprehensive coverage verification via field study, if needed	Information not provided.																					
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.																					
ASR modification (prepare FCC Form 854)	Information not provided.																					
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.																					
Attorney Fees - Negotiation of lease and other matters for shared locations	<table border="0"> <tr> <td data-bbox="687 790 1013 1025"><b>Component Description:</b></td> <td data-bbox="1013 790 1428 1025">WEDW-550-Attorney - Negotiate Lease and Other Matters</td> </tr> <tr> <td data-bbox="687 1025 1013 1115"><b>Amount:</b></td> <td data-bbox="1013 1025 1428 1115">\$46.25</td> </tr> <tr> <td data-bbox="687 1115 1013 1350"><b>Component Description:</b></td> <td data-bbox="1013 1115 1428 1350">Invoice for legal services rendered through November 30, 2018.</td> </tr> <tr> <td data-bbox="687 1350 1013 1440"><b>Amount:</b></td> <td data-bbox="1013 1350 1428 1440">\$139.50</td> </tr> <tr> <td data-bbox="687 1440 1013 1675"><b>Component Description:</b></td> <td data-bbox="1013 1440 1428 1675">Invoice for legal services rendered through May 31, 2019.</td> </tr> <tr> <td data-bbox="687 1675 1013 1765"><b>Amount:</b></td> <td data-bbox="1013 1675 1428 1765">\$324.00</td> </tr> <tr> <td data-bbox="687 1765 1013 1888"><b>Component Description:</b></td> <td data-bbox="1013 1765 1428 1888">a</td> </tr> <tr> <td data-bbox="687 1888 1013 1977"><b>Amount:</b></td> <td data-bbox="1013 1888 1428 1977">\$685.00</td> </tr> <tr> <td data-bbox="687 1977 1013 2134"><b>Component Description:</b></td> <td data-bbox="1013 1977 1428 2134">Reversal of initial cost component submitted in error</td> </tr> <tr> <td data-bbox="687 2134 1013 2224"><b>Amount:</b></td> <td data-bbox="1013 2134 1428 2224">(\$4,800.00)</td> </tr> </table>		<b>Component Description:</b>	WEDW-550-Attorney - Negotiate Lease and Other Matters	<b>Amount:</b>	\$46.25	<b>Component Description:</b>	Invoice for legal services rendered through November 30, 2018.	<b>Amount:</b>	\$139.50	<b>Component Description:</b>	Invoice for legal services rendered through May 31, 2019.	<b>Amount:</b>	\$324.00	<b>Component Description:</b>	a	<b>Amount:</b>	\$685.00	<b>Component Description:</b>	Reversal of initial cost component submitted in error	<b>Amount:</b>	(\$4,800.00)
<b>Component Description:</b>	WEDW-550-Attorney - Negotiate Lease and Other Matters																					
<b>Amount:</b>	\$46.25																					
<b>Component Description:</b>	Invoice for legal services rendered through November 30, 2018.																					
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<b>Component Description:</b>	Invoice for legal services rendered through May 31, 2019.																					
<b>Amount:</b>	\$324.00																					
<b>Component Description:</b>	a																					
<b>Amount:</b>	\$685.00																					
<b>Component Description:</b>	Reversal of initial cost component submitted in error																					
<b>Amount:</b>	(\$4,800.00)																					

**Component Description:** Television  
Repacking  
Services - WEDW  
**Amount:** \$279.00

**Component Description:** Legal services  
negotiating lease  
with Crown Castle  
for shared location.  
**Amount:** \$4,800.00

**Component Description:** Television  
Repacking  
Services - WEDW  
**Amount:** \$325.50

**Component Description:** Reversal of initial  
cost component  
submitted in error  
**Amount:** (\$1,800.00)

**Component Description:** Legal services  
negotiating lease  
with Crown Castle  
for shared location.  
**Amount:** \$1,800.00

**Component Description:** Legal services  
**Amount:** \$432.00

**Component Description:** Legal services  
negotiating lease  
with Crown Castle  
for shared location.  
**Amount:** \$2,400.00

	<p><b>Component Description:</b> Reversal of initial cost component submitted in error</p> <p><b>Amount:</b> (\$2,400.00)</p> <p><b>Component Description:</b> Attorney - Negotiate Lease and Other Matters</p> <p><b>Amount:</b> \$221.00</p>
Project management of the transition	<p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$4,298.55</p> <p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$3,344.80</p> <p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$4,426.40</p> <p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$257.70</p> <p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$2,287.95</p> <p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$4,149.95</p>

**Component Description:** Project Management  
**Amount:** \$2,472.15

**Component Description:** Project Management  
**Amount:** \$3,736.65

**Component Description:** Project Management  
**Amount:** \$3,602.80

**Component Description:** Project Management  
**Amount:** \$2,472.15

**Component Description:** Project Management  
**Amount:** \$3,838.05

**Component Description:** Project Management  
**Amount:** \$1,344.95

**Component Description:** Project Management  
**Amount:** \$1,577.50

**Component Description:** Project Management  
**Amount:** \$4,711.70

Prepare and or review  
reimbursement form

**Component Description:** Legal services preparing, reviewing, and submitting FCC Reimbursement Form 399  
**Amount:** \$900.00

**Component Description:** Legal services for preparing, reviewing, and submitting FCC Reimbursement Form 399.  
**Amount:** \$657.00

**Component Description:** Legal Services  
**Amount:** \$651.00

**Component Description:** Attorney Fees to prepare and review Reimbursement Form 399  
**Amount:** \$657.00

**Component Description:** Attorney Fees to prepare and review resubmitted Reimbursement Form 399  
**Amount:** N/A

**Component Description:** Legal Services  
**Amount:** \$232.50

**Component Description:** Television Repacking Services - WEDW  
**Amount:** \$711.00

**Component Description:** Reversal of initial cost component submitted.  
**Amount:** (\$900.00)

**Component Description:** Legal services for preparing, reviewing, and submitting FCC Reimbursement Form 399.  
**Amount:** \$900.00

**Component Description:** Reversal of initial cost component submitted  
**Amount:** (\$618.00)

**Component Description:** Legal services for preparing, reviewing, and submitting FCC Reimbursement Form 399.  
**Amount:** \$618.00

**Component Description:** Reversal of initial cost component submitted  
**Amount:** (\$657.00)

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

**Component Description:** Attorney Fees to Address Transition Timing  
**Amount:** \$39.00

**Component Description:** Address transition timing and coordination.  
**Amount:** \$39.00

**Component Description:** Attorney Fees to Address Transition Timing  
**Amount:** \$172.50

**Component Description:** Reversal of initial cost component submitted  
**Amount:** (\$172.50)

**Component Description:** Address transition timing and coordination.  
**Amount:** \$39.00

**Component Description:** Reversal of initial cost component submitted  
**Amount:** \$39.00

**Component Description:** Reversal of initial cost component submitted  
**Amount:** (\$39.00)

**Component Description:** Address transition timing and coordination.  
**Amount:** \$172.50

	<p><b>Component Description:</b> Attorney Fees to Address Transition Timing</p> <p><b>Amount:</b> \$39.00</p>
<p>Perform engineering study for new channel assignment and antenna development</p>	<p><b>Component Description:</b> Reversal of initial cost component submitted</p> <p><b>Amount:</b> (\$1,250.00)</p> <p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development.</p> <p><b>Amount:</b> \$875.00</p> <p><b>Component Description:</b> Reversal of initial cost component submitted</p> <p><b>Amount:</b> (\$875.00)</p> <p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development.</p> <p><b>Amount:</b> \$2,500.00</p> <p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development.</p> <p><b>Amount:</b> \$1,250.00</p>



	<p><b>Component Description:</b> Reversal of initial cost component submitted</p> <p><b>Amount:</b> (\$2,500.00)</p> <p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development.</p> <p><b>Amount:</b> \$1,250.00</p> <p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development.</p> <p><b>Amount:</b> \$875.00</p> <p><b>Component Description:</b> Engineering study work for new channel assignment and antenna development.</p> <p><b>Amount:</b> \$2,500.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p><b>Component Description:</b> Engineering study Construction Permit Application (Main)</p> <p><b>Amount:</b> \$2,000.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>

Prepare request for Special Temporary Authorization	<p><b>Component Description:</b> Television Repacking Services - WEDW</p> <p><b>Amount:</b> \$2,430.00</p>
	<p><b>Component Description:</b> Initial preparation of the engineering portion of the WEDW-DT STA request in Bridgeport /Stamford, CT</p> <p><b>Amount:</b> \$1,750.00</p>
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Exposure Measurements	Information not provided.

**Cost Information**

**Other Expenses**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$206,550.00</b>	<b>\$206,000.00</b>		<b>\$33,036.97</b>	
Engineering and Administrative	<i>\$20,000.00</i>	\$20,000.00	N/A	\$5,550.03	N/A
MVPD Notification of Channel Change	<i>\$11,000.00</i>	\$11,000.00	N/A	\$2,216.00	N/A
Develop and air announcement of upcoming channel change	<i>\$69,000.00</i>	\$69,000.00	See attachment for detailed justification.	\$270.00	N/A
Equipment Storage	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$5,500.00	N/A
Local Zoning	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$40,000.00</i>	\$40,000.00	N/A	\$589.00	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$18,911.94	N/A

<b>Sub-total</b>	\$206,550.00	\$206,000.00	N/A	\$33,036.97	N/A
<b>Total for all systems</b>	\$1,716,402.49	\$1,376,631.49	N/A	\$438,275.43	N/A

## Components

Actual Information	
Description	File Name
Engineering and Administrative	<b>Component Description:</b> Modification Design <b>Amount:</b> \$4,500.00
	<b>Component Description:</b> Peter Douglas's expenses incurred during a trip to CT to Repack <b>Amount:</b> \$1,050.03
	<b>Component Description:</b> Prepare letters to MVPDs. Research and contact all relevant MVPD entities <b>Amount:</b> \$2,000.00
	<b>Component Description:</b> WEDW-610-MVPD Notification <b>Amount:</b> \$216.00
MVPD Notification of Channel Change	<b>Component Description:</b> Prepare letters to MVPDs. Research and contact all relevant MVPD entities <b>Amount:</b> \$2,000.00
Develop and air announcement of upcoming channel change	<b>Component Description:</b> Email exchanges with M. Sakellarides <b>Amount:</b> \$270.00
Equipment Storage	Information not provided.

DTV Medical Facility Notification	<p><b>Component Description:</b> Mailing: Print and mail a two page, black and white generically addressed letter</p> <p><b>Amount:</b> \$5,500.00</p>
Local Zoning	Information not provided.
Non-zoning permits	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	<p><b>Component Description:</b> Bridgeport (CT)- Mixed Debris- 30 yard dumpster rental- 3 ton weight limit</p> <p><b>Amount:</b> \$589.00</p>
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> Lull</p> <p><b>Amount:</b> \$3,749.06</p> <p><b>Component Description:</b> Labor - WEDW FCC Repack CH. 21</p> <p><b>Amount:</b> \$1,400.00</p> <p><b>Component Description:</b> Environmental, Crane, Labor</p> <p><b>Amount:</b> \$13,762.88</p>

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$1,716,402.49	\$1,376,631.49	\$438,275.43

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
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
	<b>Submission of Estimated Expenses Statements</b>	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li data-bbox="750 772 1037 1176">1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li data-bbox="750 1198 1021 1444">2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li data-bbox="750 1467 1029 1747">3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	

- 4.** The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 5.** The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6.** The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7.** The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.



8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Meg Sakellarides**  
*Chief  
Financial  
Officer*

08/25/2019

Certification	Section	Question	Response
	<b>Submission of Actual Cost Documentation Statements</b>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

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 above-named applicant for the Authorization(s) specified above.

**Meg  
Sakellarides**  
*Chief  
Financial  
Officer*

08/25/2019

## Attachments