



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **19200** | Service: **DTV** | Call **WTNZ** | Channel: **15 (UHF)** |  
ID: | Sign:  
File **0000025079**  
Number:  
FRN: **0028123164** | Date **08/23**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>MARBLE CITY TV LLC</b>	220 SALTERS CREEK ROAD HAMPTON, VA 23661	+1 (757) 726-0136	DHANNA@LOCKWOODBROADCAST.COM	Limited Liability Company
Doing Business As:	MARBLE CITY TV LLC			

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Samuel Hariton</b> <i>Widelity</i>	4031 University Drive Ste 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

**Broadcaster  
Information  
and  
Transition  
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	Move station to another close by ATC tower facility. Install new main and backup transmitter

**Transmitters**

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

**Auxiliary  
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	Harris
	Model	UAX
	Year	2011

	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.1 kW

**Auxiliary  
Transmitter**

**Retuning Transmitter Costs**

Section	Question	Response
<b>New IOT Tubes</b>	Number of Tubes (including accessories) needed	N/A
<b>New Mask Filter</b>	Power	1.5 kW
	Other Power	N/A
<b>New Exciter</b>	Is a new exciter needed?	No

**Auxiliary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	50.0 feet
	Other Electrical Service	Yes
	Description	panel board distribution and breakers
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes

	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	200.0
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DCX
	Year	2005
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	20 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Existing transmitter cannot be retuned Manufacturer data attached Headroom analysis attached Upgrade for V-pol. Station will pay all costs associated with v-pol upgrade from ULXTE- 40 to ULXTE- 50

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Service panel and distribution for new greenfield ATC suite.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	10 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	800.0 square feet
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
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<b>Emergency Generator</b>	250 kW diesel generator and ATS
<b>removal of existing equipment</b>	Station must abandon existing ATC suite and remove its equipment



**Antennas**

Section	Question	Response
Antenna Related 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	Leased
	Owner	American Tower
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	10
	Design power capacity in use	50.0 %
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	460.0 kW

	Manufacturer	
	Model	TUD-O5-16 /80H-2-B
	Year	2003

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

Facility ID	Call Sign
52628	WPXK-TV
71082	WATE-TV

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?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	350.0 kW
	Manufacturer	

Model	TFU-24GTH /VP-R 04
Year	2019
Justification for New Antenna	Existing leased antenna will not meet spec for channel 15. Sweep data attached. Station must relocate and purchase a new single frequency antenna.

**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	6 1/8 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**

Name	Description
Antenna Pedestal	Required 4' pedestal for arbor arm installation

**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	Leased
	Owner	American Tower
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1600 feet per run

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

Facility ID	Call Sign
71082	WATE-TV
52628	WPXK-TV





**Primary** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1500 feet per run
	Justification for New Transmission Line	Station is changing sites and is not able to lease.

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

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**

**Add Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1222895
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	35° 59' 44.4" N-
	Longitude (NAD83)	083° 57' 23.1" W-
	Overall Structure Height	1534.10 feet
	Support Structure Height	1399.92 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1314.94 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers LLC
Date Constructed	04/03/2003

### Primary Tower

#### Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	No study needed
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

### Primary Tower

#### Tower Rigging Costs

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

### Primary Tower

#### Other Tower Expenses Not Listed

Information not provided.

## Primary Tower

### Add Tower

Section	Question	Response
<b>Existing Tower Description</b>	Type of change	Move Equipment
	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?	No
	Is tower compliant with Rev G?	Unknown
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	Yes
	ASR Number	1052156
<b>Coordinates (NAD83 (North American Datum of 1983))</b>	Latitude (NAD83)	36° 00' 12.8" N-
	Longitude (NAD83)	083° 56' 34.0" W-
	Overall Structure Height	1456.02 feet
	Support Structure Height	1332.99 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1393.03 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	SpectraSite Communications, LLC. through American Towers, LLC.

	Date Constructed	01/01/1955
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**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
69161	WUOT	FM
35908	WVLT-TV	DTV
18267	WKOP-TV	DTV

**Primary  
Tower**

**Tower Rigging Costs**

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

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	800
	Explanation	Pattern analysis Antenna Spec Transmitter Spec Building drawings Installation Supervision Accounting Internal Legal Strategic Support
<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	No
	Quantity	N/A
	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	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	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	No
	Additional Field Engineering Service	Yes
	Number of Days	1
	Justification	system sweep



**Outside Other Professional Services Expenses Not Listed**  
**Professional Services Costs** Services not provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	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	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	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
ATC Expenses	Defined American Tower charges attached
Site Security	Site Security
Microwave STL	Microwave STL required due to forced move to a different tower WTNZs existing ATC tower will install a communal antenna that will not support the WTNZs repack channel

## 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-50</b>	<b>\$1,288,721.57</b>	<b>\$1,260,068.37</b>		<b>\$730,838.34</b>	
Other -- Building Addition Size: 800.0	<i>\$45,000.00</i>	\$45,000.00	N/A	\$8,250.00	N/A
removal of existing equipment	<i>\$35,000.00</i>	\$35,000.00	N/A	N/A	N/A
Emergency Generator	<i>\$55,000.00</i>	\$55,000.00	This is a new site requiring a replacement generator The cost is net of old site trade in. Quote attached	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<i>\$951,571.57</i>	\$951,571.57	GatesAir Quote Q-76710	\$722,588.34	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A

Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$7,496.80	GatesAir Quote Q- 76710	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$10,100.00	\$9,000.00	new site with no existing electrical infrastructure	N/A	N/A
Other Electrical Service: Service panel and distribution for new greenfield ATC suite.	<b>\$75,000.00</b>	\$75,000.00	New greenfield site shell requiring all new electrical distribution	N/A	N/A
10 Ton system	\$38,900.00	\$32,000.00	new greenfield site requiring new HVAC	N/A	N/A
<b>Auxiliary Transmitter UAX</b>	<b>\$205,330.00</b>	<b>\$105,371.60</b>		<b>\$2,785.38</b>	
Other -- Building Addition Size: 200.0	<b>\$15,000.00</b>	\$15,000.00	floor and wall paint. New concrete shell site	N/A	N/A
5 Ton system	\$20,250.00	\$19,000.00	new site with no existing HVAC. Aux tx is air cooled	N/A	N/A
Other Electrical Service: panel board distribution and breakers	<b>\$35,000.00</b>	\$35,000.00	New greenfield site with no existing electrical infrastructure	N/A	N/A

2" Rigid Conduit and Wiring (Cost per foot)	\$1,300.00	\$1,200.00	new greenfield site with no existing electrical infrastructure	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$23,000.00	new greenfield site with no existing electrical infrastructure	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$12,171.60	Quote attached (GA- 00021682 )	\$2,785.38	N/A
1.5 kW mask filter	\$3,030.00	\$0.00	included in tx quote	N/A	N/A
<b>Sub-total</b>	\$1,494,051.57	\$1,365,439.97	N/A	\$733,623.72	N/A
<b>Total for all systems</b>	\$3,491,163.44	\$2,997,621.64	N/A	\$1,597,576.41	N/A

## Components

Actual Information	
Description	File Name

Other -- Building Addition Size: 800.0	<b>Component Description:</b> WTNZ-110-1st Primary Transmitter - Building Addition, 800 sq. ft. <b>Amount:</b> \$1,250.00
	<b>Component Description:</b> Equipment Rental for Interior Paint and Seal <b>Amount:</b> \$693.36
	<b>Component Description:</b> Sealed, waterproofed, and coated 42x21x26 interior walls <b>Amount:</b> \$6,306.64
removal of existing equipment	Information not provided.
Emergency Generator	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<b>Component Description:</b> ULXTE-50 <b>Amount:</b> \$90,739.11
	<b>Component Description:</b> ULXTE-50 <b>Amount:</b> \$571,320.49
	<b>Component Description:</b> ULXTE-50 <b>Amount:</b> \$60,528.74
Service entrance 3 phase /800 amp/208 volt	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.

4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Other Electrical Service: Service panel and distribution for new greenfield ATC suite.	Information not provided.
10 Ton system	Information not provided.
Other -- Building Addition Size: 200.0	Information not provided.
5 Ton system	Information not provided.
Other Electrical Service: panel board distribution and breakers	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
UHF and VHF - minor banding issues	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Channel Change &amp; Proof \$1,671.23 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Channel Change UAX-1000AT per quote GA- 00021682 \$1,114.15 </div> </div>
1.5 kW mask filter	Information not provided.



## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Antenna TFU-24GTH /VP-R 04</b>	<b>\$347,430.00</b>	<b>\$272,738.00</b>		<b>\$181,914.37</b>	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	included in antenna cost, quote attached	\$9,481.38	N/A
Antenna Pedestal	<b>\$38,900.00</b>	\$38,900.00	quote attached. Does not include freight	\$1,375.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$217,140.00	Quote Attached (800134CMZ-2) Station is responsible for \$27,600 in v-pol related expense.	\$164,657.99	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
<b>Sub-total</b>	<b>\$347,430.00</b>	<b>\$272,738.00</b>	N/A	<b>\$181,914.37</b>	N/A

<b>Total for all systems</b>	\$3,491,163.44	\$2,997,621.64	N/A	\$1,597,576.41	N/A
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## Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b>
	WTNZ-210-Primary Antenna - Elbow Complex, 6 1/8"
	<b>Amount:</b>
	\$4,634.10
	<b>Component Description:</b>
	WTNZ-210-Primary Antenna - Elbow Complex, 6 1/8"
	<b>Amount:</b>
	\$213.18
	<b>Component Description:</b>
	WTNZ-210-Primary Antenna - Elbow Complex, 6 1/8"
	<b>Amount:</b>
	\$4,634.10
Antenna Pedestal	<b>Component Description:</b>
	WTNZ-210-Primary Antenna - Antenna Pedestal
	<b>Amount:</b>
	\$1,375.00

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="724 98 1043 300"><b>Component Description:</b></td><td data-bbox="1059 98 1426 300">Antenna UHF high power top mount</td></tr> <tr> <td data-bbox="724 300 1043 367"><b>Amount:</b></td><td data-bbox="1059 300 1426 367">\$80,659.12</td></tr> <tr> <td data-bbox="724 434 1043 501"><b>Component Description:</b></td><td data-bbox="1059 434 1426 501">Freight, shipping and handling</td></tr> <tr> <td data-bbox="724 501 1043 568"><b>Amount:</b></td><td data-bbox="1059 501 1426 568">\$3,339.75</td></tr> <tr> <td data-bbox="724 636 1043 703"><b>Component Description:</b></td><td data-bbox="1059 636 1426 703">Antenna UHF high power top mount</td></tr> <tr> <td data-bbox="724 703 1043 860"><b>Amount:</b></td><td data-bbox="1059 703 1426 860">\$80,659.12</td></tr> </table>	<b>Component Description:</b>	Antenna UHF high power top mount	<b>Amount:</b>	\$80,659.12	<b>Component Description:</b>	Freight, shipping and handling	<b>Amount:</b>	\$3,339.75	<b>Component Description:</b>	Antenna UHF high power top mount	<b>Amount:</b>	\$80,659.12
<b>Component Description:</b>	Antenna UHF high power top mount												
<b>Amount:</b>	\$80,659.12												
<b>Component Description:</b>	Freight, shipping and handling												
<b>Amount:</b>	\$3,339.75												
<b>Component Description:</b>	Antenna UHF high power top mount												
<b>Amount:</b>	\$80,659.12												
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="724 882 1043 1084"><b>Component Description:</b></td><td data-bbox="1059 882 1426 1084">WTNZ-210- Primary Antenna - Sweep Test</td></tr> <tr> <td data-bbox="724 1084 1043 1151"><b>Amount:</b></td><td data-bbox="1059 1084 1426 1151">\$2,880.00</td></tr> <tr> <td data-bbox="724 1218 1043 1285"><b>Component Description:</b></td><td data-bbox="1059 1218 1426 1285">Other</td></tr> <tr> <td data-bbox="724 1285 1043 1352"><b>Amount:</b></td><td data-bbox="1059 1285 1426 1352">\$640.00</td></tr> <tr> <td data-bbox="724 1420 1043 1487"><b>Component Description:</b></td><td data-bbox="1059 1420 1426 1487">WTNZ-210- Primary Antenna - Sweep Test</td></tr> <tr> <td data-bbox="724 1487 1043 1590"><b>Amount:</b></td><td data-bbox="1059 1487 1426 1590">\$2,880.00</td></tr> </table>	<b>Component Description:</b>	WTNZ-210- Primary Antenna - Sweep Test	<b>Amount:</b>	\$2,880.00	<b>Component Description:</b>	Other	<b>Amount:</b>	\$640.00	<b>Component Description:</b>	WTNZ-210- Primary Antenna - Sweep Test	<b>Amount:</b>	\$2,880.00
<b>Component Description:</b>	WTNZ-210- Primary Antenna - Sweep Test												
<b>Amount:</b>	\$2,880.00												
<b>Component Description:</b>	Other												
<b>Amount:</b>	\$640.00												
<b>Component Description:</b>	WTNZ-210- Primary Antenna - Sweep Test												
<b>Amount:</b>	\$2,880.00												

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$303,000.00	\$232,996.80		\$232,996.80	
Rigid Transmission Line - copper, 6 1/8"	\$303,000.00	\$232,996.80	aee Estimated Cost Justification WTNZ-310-Primary Transmission Line - Rigid Copper, v1	\$232,996.80	invoices
Sub-total	\$303,000.00	\$232,996.80	N/A	\$232,996.80	N/A
Total for all systems	\$3,491,163.44	\$2,997,621.64	N/A	\$1,597,576.41	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	<div><div>Component Description:</div><div>WTNZ-310-Primary Transmission Line - Rigid Copper, 6 1/8</div><div>Amount:</div><div>\$3,552.93</div></div> <div><div>Component Description:</div><div>T/L 6-75 EIA length 15' to 20' fixed FLG</div><div>Amount:</div><div>\$3,133.40</div></div>

<b>Component Description:</b>	Rigid transmission line-copper
<b>Amount:</b>	\$21,757.06

<b>Component Description:</b>	RFREIGHT OTHER
<b>Amount:</b>	\$3,376.59

<b>Component Description:</b>	WTNZ-310- Primary Transmission Line - Rigid Copper, 6 1 /8"
<b>Amount:</b>	\$97,906.72

<b>Component Description:</b>	FREIGHT, SHIPPING, AND HANDLING LINE 31 & LINE 32 FEDEX FIRST OVERNIGHT
<b>Amount:</b>	\$2,884.23

<b>Component Description:</b>	SADDLE KIT 6 T/L 5/8 X 7 LG
<b>Amount:</b>	\$876.40

<b>Component Description:</b>	Stainless 3/8" angle adapters
<b>Amount:</b>	\$1,602.75

<b>Component Description:</b>	WTNZ-310- Primary Transmission Line - Rigid Copper, 6 1 /8"
<b>Amount:</b>	\$97,906.72

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## 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 GTOWER</b>	<b>\$477,400.00</b>	<b>\$264,325.00</b>		<b>\$264,325.00</b>	
Tower Helicopter Lift	<i>\$56,400.00</i>	\$56,400.00	Tower King II, Inc Proposal C-19-014	\$56,400.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$207,925.00	Tower King II, Inc Proposal C-19-014 & Brabston Trucking Inc Invoice 2493 for use of gap road	\$207,925.00	N/A
<b>Primary Tower GTOWER</b>	<b>\$421,000.00</b>	<b>\$409,500.00</b>		<b>\$0.00</b>	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$409,500.00	Remove Equipment From Old Tower	N/A	N/A
<b>Sub-total</b>	<b>\$898,400.00</b>	<b>\$673,825.00</b>	N/A	<b>\$264,325.00</b>	N/A
<b>Total for all systems</b>	<b>\$3,491,163.44</b>	<b>\$2,997,621.64</b>	N/A	<b>\$1,597,576.41</b>	N/A

### Components

Actual Information	
Description	File Name
Tower Helicopter Lift	<b>Component Description:</b>
	Down Payment for WTNZ Repack Antenna Project
	<b>Amount:</b> \$21,580.00
	<b>Component Description:</b>
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	TOWER SERVICE
	<b>Amount:</b> \$34,820.00
	<b>Component Description:</b>
	WTNZ-410-New Primary Tower - Complex Tower
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<b>Amount:</b> \$78,420.00
	<b>Component Description:</b>
	WTNZ-410-New Primary Tower - Complex Tower
	<b>Amount:</b> \$126,505.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<b>Component Description:</b>
	Use of Gap Road property for staging area
	<b>Amount:</b> \$3,000.00
	Information not provided.

## Cost Information

### Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$244,790.00</b>	<b>\$257,050.00</b>		<b>\$56,009.69</b>	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,562.50	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$9,560.78	N/A
Additional Field Engineering Service, 1 Days	<i>\$5,000.00</i>	\$5,000.00	N/A	\$752.76	N/A
Project management of the transition	\$126,400.00	\$144,675.00	Widelity Strategic Support Quote	\$38,508.65	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A



Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,625.00	Per invoices submitted	\$3,625.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,000.00	market phase coordination	N/A	N/A
<b>Sub-total</b>	\$244,790.00	\$257,050.00	N/A	\$56,009.69	N/A
<b>Total for all systems</b>	\$3,491,163.44	\$2,997,621.64	N/A	\$1,597,576.41	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>  <b>Amount:</b>	Repack Engineering \$1,187.50
	<b>Component Description:</b>  <b>Amount:</b>	WTNZ-530-RF Eng - Engineering Study for New Channel Assignment \$2,250.00
	<b>Component Description:</b>  <b>Amount:</b>	Engineering study work for new channel assignment and antenna development. \$125.00
Comprehensive coverage verification via field study, if needed	<b>Component Description:</b>  <b>Amount:</b>	WTNZ-580-Field Engineering Service - Comprehensive Coverage Verification \$9,560.78
Additional Field Engineering Service, 1 Days	<b>Component Description:</b>  <b>Amount:</b>	WTNZ-580-Field Engineering Service - Additional Field Engineering, 1 Day \$752.76
Project management of the transition	<b>Component Description:</b>  <b>Amount:</b>	Project Management \$2,175.00

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,324.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,761.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,362.50

<b>Component Description:</b>	WTNZ-510-Project Management
<b>Amount:</b>	\$385.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$6,866.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,945.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,848.75

<b>Component Description:</b>	Travel Expenses
<b>Amount:</b>	\$893.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$105.00

	<b>Component Description:</b> <b>Amount:</b>	Project Management \$3,757.85
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,999.90
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,084.95
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
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	<b>Component Description:</b> <b>Amount:</b>	Preparation of the engineering portion of FCC Form 2100 \$2,000.00
	<b>Component Description:</b> <b>Amount:</b>	Preparation of the engineering portion of FCC Form 2100 \$1,625.00
	<b>Component Description:</b> <b>Amount:</b>	Preparation of the engineering portion of FCC Form 2100 \$1,625.00
	<b>Component Description:</b> <b>Amount:</b>	Preparation of the engineering portion of FCC Form 2100 \$1,625.00

Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	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>\$203,491.87</b>	<b>\$195,571.87</b>		<b>\$128,706.83</b>	
Microwave STL	<i>\$102,596.87</i>	\$102,596.87	Please see Justification for Microwave STL system; See WTNZ-610-Microwave STL Cost Increase Justification V. 0	\$102,596.87	N/A
ATC Expenses	<i>\$19,630.00</i>	\$19,630.00	ATC document attached	N/A	N/A
MVPD Notification of Channel Change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,850.00</i>	\$2,850.00	estimate for on air rescan announcement production Quote attached	N/A	N/A
Equipment Storage	<i>\$20,000.00</i>	\$20,000.00	Dielectric letter attached	\$1,560.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,000.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Non-zoning permits	<b>\$3,000.00</b>	\$3,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$25,000.00</b>	\$25,000.00	N/A	\$10,562.48	N/A
Equipment Delivery and Handling Charges	<b>\$2,970.00</b>	\$2,970.00	On site forklift rental estimate Representative quote attached	\$787.48	N/A
Site Security	<b>\$9,450.00</b>	\$9,450.00	Invoices Christopher Bell 001, Christopher Jones 002, Daniel Paidousis 002, David Gerlach 002, 003, Hayden Cochran 001, James Lockmiller 002, 003, Michael Geddings 001, 002, Alan Meisheid 001, 002, Jonathan Gomez 001, Shawn Austin 001	\$9,450.00	N/A
<b>Sub-total</b>	\$203,491.87	\$195,571.87	N/A	\$128,706.83	N/A
<b>Total for all systems</b>	\$3,491,163.44	\$2,997,621.64	N/A	\$1,597,576.41	N/A

## Components

Actual Information	
Description	File Name
Microwave STL	<b>Component Description:</b> Antenna HP DP <b>Amount:</b> \$40,106.40
	<b>Component Description:</b> FREIGHT CHARGES <b>Amount:</b> \$2,363.78
	<b>Component Description:</b> IPLink 6GHz Duplex T/R HS, High RF <b>Amount:</b> \$60,126.69
ATC Expenses	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	<b>Component Description:</b> WTNZ-610-Equipment Storage <b>Amount:</b> \$1,560.00
DTV Medical Facility Notification	<b>Component Description:</b> Medical Notification Mailing Complete per FCC Repack <b>Amount:</b> \$3,750.00
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.



FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
Non-zoning permits	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	<b>Component Description:</b> <b>Amount:</b>	Service Call \$9,150.00
	<b>Component Description:</b> <b>Amount:</b>	Fee, Fuel Surcharge \$1,412.48
Equipment Delivery and Handling Charges	<b>Component Description:</b> <b>Amount:</b>	Stowers Rental TL642D \$787.48
Site Security	<b>Component Description:</b> <b>Amount:</b>	WTNZ Antenna Upgrade Job #691 \$240.00
	<b>Component Description:</b> <b>Amount:</b>	WTNZ Antenna Upgrade Job #691 \$240.00
	<b>Component Description:</b> <b>Amount:</b>	Repack Security \$420.00
	<b>Component Description:</b> <b>Amount:</b>	Repack Security \$210.00
	<b>Component Description:</b> <b>Amount:</b>	Repack Security \$210.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$1,260.00

<b>Component Description:</b>	WTNZ Antenna Upgrade Job #691
<b>Amount:</b>	\$480.00

<b>Component Description:</b>	Repack Security - GL#110128
<b>Amount:</b>	\$240.00

<b>Component Description:</b>	WTNZ Antenna Upgrade Job #691
<b>Amount:</b>	\$420.00

<b>Component Description:</b>	Repack Security - GL#110128
<b>Amount:</b>	\$450.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$240.00

<b>Component Description:</b>	Repack Security - GL#110128
<b>Amount:</b>	\$660.00

<b>Component Description:</b>	WTNZ Antenna Upgrade Job #691
<b>Amount:</b>	\$420.00

<b>Component Description:</b>	Repack Security - GL#110128
<b>Amount:</b>	\$660.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$270.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$210.00

<b>Component Description:</b>	Repack Security - GL#110128
<b>Amount:</b>	\$240.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$510.00

<b>Component Description:</b>	Repack Security - GL#110128
<b>Amount:</b>	\$420.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$240.00

<b>Component Description:</b>	WTNZ Antenna Upgrade Job #691
<b>Amount:</b>	\$210.00

<b>Component Description:</b>	WTNZ Antenna Upgrade Job #691
<b>Amount:</b>	\$480.00

<b>Component Description:</b>	WTNZ Antenna Upgrade Job #691
<b>Amount:</b>	\$450.00

<b>Component Description:</b>	Repack Security
<b>Amount:</b>	\$270.00

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Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,491,163.44	\$2,997,621.64	\$1,597,576.41

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

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

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

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

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

**Bob  
Pectelidis**  
*Director of  
Corporate  
Engineering*

08/23/2019



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

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Bob Pectelidis</b>  <i>Director of Corporate Engineering</i></p> <p>08/23/2019</p>

## Attachments