

Federal Communications Commission

#### (REFERENCE COPY - Not for submission)

## FCC Form 399: Reimbursement Request

Facility ID: File	72098 000002	Service: <b>DTV</b> 8580	Call Sign:	WGBX-TV	Channel: <b>43 (UHF)</b>
Number:					
FRN: <b>00</b>	03764560	Date	11/28		
		Submitted:	/2018		

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

#### Applicant Information

lion	Applicant	Address	Phone	Email	Applicant Type
	WGBH EDUCATIONAL FOUNDATION	Eric Brass 1 Guest Street Boston, MA 02135 United States	+1 (617) 300-4405	ERIC_BRASS@WGBH. ORG	Not-for- Profit

#### 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	
	Emeric Feldmar Director of Engineering WGBH Educational Foundation	Emeric Feldmar 1 Guest Street Boston, MA 02135 United States	+1 (617) 300- 2371	emeric_feldmar@wgbh. org	

Broadcaster	Question	Response
Information and Transition Plan	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	WGBX will operate on Ch. 43 from an interim site for 10-12 mos. while extensive tower work is conducted and then resume operations on Ch. 32 at its original tower. After the transition, WGBX will retune its interim transmitter to replace its existing aux.

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

## Auxiliary Add Transmitter Information

Auxiliary						
Transmitter	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	Ranger CZ1000L
Year	2011
Туре	Solid State
Solid State Cooling	Air Cooled
Solid State Power capacity	1 kW

Auxiliary	Retuning Transmitter Costs					
Transmitter	Section	Question	Response			
	New IOT Tubes	Number of Tubes (including accessories) needed	N/A			
	New Mask Filter	Power	30 kW			
		Other Power	N/A			
	New Exciter	Is a new exciter needed?	No			

## Auxiliary Other Transmitter Costs

Transmitter	Section	Question	Response		
	Electrical Service	Service Entrance (3 phases 800A 208V)	No		
		Switchgear (industrial 800 amp)	No		
		Transformer (480V)	No		
		Power	N/A		
		Rigid Conduit and Wiring	No		
		Size	N/A		
		Length	N/A		
		Other Electrical Service	No		
		Description	N/A		
	HVAC Service	Does the replacement transmitter require HVAC Service?	No		

	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

#### Other Transmitter Cost Not Listed

AuxiliaryOther Transmitter CoTransmitterInformation not provided.

ransmitter	Section	Question	Response
	Existing Transmitter Description	Type of change	Purchase New
		Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is this transmitter currently shared with another station?	No
		Is this transmitter currently in operating condition?	Yes
	Existing Transmitter Manufacturer and Type	Manufacturer	
		Model	Millennium CTT-U- DCX-1H
		Year	2001
		Туре	Inductive Output Tube
		IOT Power Type	Single
		Power Capacity	22.3 kW

# Primary Add 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	THU9-60 EVO 88.8 kW
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	90 kW
	Justification for New Transmitter	See attachment "Transmitter Justification"	

Primary	Other Transmitter Costs		
Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	No
		Transformer (480V)	Yes
		Power	300 kVA
		Rigid Conduit and Wiring	No
		Size	N/A
		Length	N/A
		Other Electrical Service	Yes

	Description	Conduit and wiring material and labor costs required for new transmitter.
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	Other Transmitter Cost Not Listed mary	
Transmitter Name Description	Description	
	RF Monitor	RF Monitor System

Interim	New Transmitter Costs		
Transmitter	Section	Question	Response
	New Transmitter	Use	Interim
		Description of Use	N/A
		Change Type	Purchase
		Manufacturer	
		Model	THU9-EVO 73.5 kW
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	75 kW
		Justification for New Transmitter	Transitional site required to maintain full power operations during the 10- 12 months while a reinforcement and new combiner system are installed on the existing tower.

Interim	Other Transmitter Costs		
Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
		Switchgear (industrial 800 amp)	Yes
		Transformer (480V)	Yes
		Power	300 kVA
		Rigid Conduit and Wiring	Yes

	Size	4 inches
	Length	150.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	250.0 square feet
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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

nterim	Other Transmitter Cost Not Listed	l
Fransmitter	Name	Description
	RF Monitoring	RF monitoring system
	Engineering and Design	Interim and Main: Site Survey and Lidar Scanning,Outdoor Cooling Equipment Study, Design Coordination and Construction/Permit Set, Construction Phase Services-Site Inspection Visits /Punchlist
	Microwave Link to Interim Site	Link from studio to interim transmitter site

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

## Add Antenna Information

Antenna	Section	Question	Response
	Existing Antenna Description	Type of change	Lease New
		Antenna Use	Primary (Main)
		Description of Use	N/A
		Ownership	Leased
		Owner	American Tower
		Site	N/A
		Is this antenna currently shared with any other stations?	Yes
		Is this antenna directional?	No
		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	Top Mount
		Antenna position in stack	Bottom
		Polarization	Horizontal
		Туре	Broadband Panel
		Number of Stations Supported	5
		Number of Panels	24
		Design power capacity in use	87.1 %
		Lower Limit	500.00 MHz
		Upper Limit	660.00 MHz
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	625.0 kW

Manufacturer	
Model	TAD24UDA- 5-60MR
Year	2001

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

Facility ID	Call Sign
72099	WGBH-TV
73982	WSBK-TV
25456	WBZ-TV
65684	WCVB-TV

Primary Antenna	New Antenna Costs				
	Section	Question	Response		
	New Antenna Description	Use	Primary (Main)		
		Description of Use	N/A		
		Change Type	Lease New		
		Is this a request for upgraded equipment?	Yes		
		Ownership	Leased		
		Owner	American Tower		
		Is antenna shared?	Yes		
		Is antenna directional?	No		
		Will antenna be located on or in close proximity to an antenna farm?	No		
	New Antenna	Class	Primary (Main)N/ALease NewYesLeasedAmerican TowerYesNo		
	Manufacturer and Types	Mounting			
		Antenna position in stack			
		Polarization	Circular		
		Туре	YesLeasedAmerican TowerYesNoYesNoNoNoFull PowerTop MountTop MountNot in StackCircularBroadband Panel414470.00 MHz698.00 MHz85.0 %N/A		
		Number of Stations Supported	4		
		Number of Panels/Bays	14		
		Lower Limit	470.00 MHz		
		Upper Limit	698.00 MHz		
		Design power capacity in use	85.0 %		
		Other Antenna Type	N/A		
		ERP: (Effective Radiated Power) 500.0 k	500.0 kW		
		Manufacturer			

Model	TUM-AP-04- 14/56-2-T
Year	2018
Justification for New Antenna	Existing antenna not usable at new channel assignments

Primary Antenna	Other Antenna Costs			
	Section	Question	Response	
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes	
		Туре	New	
		Number of channels supported	4	
		Frequencies of channels supported	RF channel	
		Frequency	N/A	
		Do you need a combiner output splitter /switcher for dual feed lines?	No	
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes	
		Broadband or Single Channel?	Broadband	
		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?	No	
	Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No	
	Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes	

# Enter a list of RF channel numbers.

Primary Antenna

RF Channel Number		
20		
21		
32		
33		

# Other Antenna Cost Not Listed Name Description Combiner Installation Installation and commission of combiner system. See ATC quotation.

Interim Antenna	New Antenna Costs			
	Section	Question	Response	
	New Antenna Description	Use	Interim	
		Description of Use	N/A	
		Change Type	Purchase New	
		Ownership	Leased	
		Owner	American Tower	
		Is antenna shared?	Yes	
		Is antenna directional?		
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Bottom	
		Polarization	Elliptical	
		Туре	Full PowerTop MountBottomEllipticalBroadbandPanel414	
	Number of F Lower Limit Upper Limit	Number of Stations Supported	4	
		Number of Panels/Bays	14	
		Lower Limit	470.00 MHz	
		Upper Limit	608.00 MHz	
		Design power capacity in use	85.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	200.0 kW	
		Manufacturer		
		Model	TUM-AP-04- 14/56-2-B	

Year	2018
Justification for New Antenna	Interim antenna required for transitional site during the 10-12 months while a reinforcement and new combiner system are installed on the existing tower.

## Interim Other Antenna Costs

Antenna				
	Section	Question	Response	
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes	
		Туре	New	
		Number of channels supported	4	
		Frequencies of channels supported	RF channel	
		Frequency	N/A	
		Do you need a combiner output splitter /switcher for dual feed lines?	No	
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes	
		Broadband or Single Channel?	В	
		Feed Line Size	7 3/16 inches	
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No	
	Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No	

Sweep Test	Do you require the sweep testing of	Yes
	transmission line and antenna?	

## Enter a list of RF channel numbers.

RF Channel Number	
33	
20	
21	
32	

Interim	
Antenna	

Other Antenna Cost Not Listed

Name	Description
Combiner Installation	WGBX shared expense of installation, testing and commissioning of combiner
Tower rental	One-time tower rental during market repack period.

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

## Existing Transmission Line Existing Transmission

nsmissior	n Line Section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		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
	Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
		Туре	Rigid
		Diameter	8 3/16 inches
		Other Diameter	N/A
		Segment Length	Broadband
		Other Segment Length	N/A
		Number of parallel runs	3
		Length	1469 feet per run

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

Facility ID	Call Sign	
72099	WGBH-TV	
25456	WBZ-TV	
65684	WCVB-TV	
73982	WSBK-TV	

#### Other Transmission Line Expenses Not Listed Primary Trar

nsmission	Name	Description
	Transmission line refurbish	Refurbish existing transmission lines per ATC.

#### New Transmission Line Interim

#### Tra

ransmissior	Section	Question	Response
	New Transmission Line Costs	Use	Interim
		Description of Use	N/A
		Change Type	Lease New
		Туре	Rigid
		Diameter	7 3/16 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	2
		Length	1250 feet per run
		Justification for New Transmission Line	Interim site requires transmission line to

## Other Transmission Line Expenses Not Listed

Transmission not provided.

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

Auxiliary	Add Tower			
Tower	Section	Question	Response	
	Existing Tower	Type of change	Modify Existing	
	Description	Tower Use	Auxiliary (Backup)	
		Description of Use	Interim Tower	
		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?	Unknown	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1004233	
	Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	42° 18' 10.7" N-	
		Longitude (NAD83)	071° 13' 04.9" W-	
		Overall Structure Height	1200.77 feet	
		Support Structure Height	1101.04 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	150.92 feet	
		Structure Type	GTOWER - Guyed	

	Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	04/19/2005

#### 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
73238	WLVI	DTV
1901	WBZ-FM	FM
6463	WFXT	DTV
13806	WZLX	FM
49385	WXRV	FM
26897	WWBX	FM
9639	WODS	FM

#### **Tower Modification Costs** Auxiliary

-		1
1	ower	

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

#### **Tower Rigging Costs** Auxiliary

Tower

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

Auxiliary	Other Tower Expenses Not Listed	
Tower	Name	Description
	Tower Permits	Permits

Primary	Existing Tower					
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?	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	No			
		Is tower documented for structural analysis?	Yes			
		Is tower compliant with Rev G?	Yes			
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes			
		ASR Number	1003433			
	Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	42° 18' 37.0" N-			
		Longitude (NAD83)	071° 14' 12.0" W-			
		Overall Structure Height	1296.24 feet			
		Support Structure Height	1192.24 feet			
		Ground Elevation Above Mean Sea Level (AMSL)	152.89 feet			
		Structure Type	GTOWER - Guyed Structure Used for Communication Purposes			
		Tower Owner	American Tower, LLC			
		Date Constructed	01/01/1957			

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
25456	WBZ-TV	DTV
65684	WCVB-TV	DTV
72099	WGBH-TV	DTV
73982	WSBK-TV	DTV
68241	WBUR-FM	FM
10542	WKLB-FM	FM

## Primary Tower Modification Costs

Tower

Tower

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

## Primary Tower Rigging Costs

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

## Other Tower Expenses Not Listed

Primary Tower	Other Tower Expenses Not Listed				
	Name	Description			
	Tower Permit Package	Generation of a construction drawing package per ATC quote			

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	95
		Explanation	American Tower (ATC) outside project management required to coordinate WGBX w multiple broadcasters including interim move to second tower with shared antenna and related infrastructure
	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
Jeivices	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	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	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Other Professional Services Expenses Not Listed Professional Services roostsided.

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	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	Yes
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	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
RF System Commission	Testing of the combiner system for optimal transmission patterns per ATC documentation
Site coordination meetings	Site coordination with broadcasters, contractors and vendors involved with the site deliveries and construction. Per attached ATC documentation
Pre planning survey and engineering	Site and transmitter building drawings.

#### Transmitters

#### Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter THU9-EVO 73.5 kW	\$2,637,200.42	\$2,108,450.74		\$561,341.15	
Other Building Addition Size: 250.0	\$26,800.00	\$26,800.00	Includes Ice shield and permitting per ATC quote.	\$2,700.00	N/A
Other HVAC Service Type: C Size:20 (Other)	\$26,000.00	\$26,000.00	Includes Ice Shield for HVAC \$4,000	\$19,500.00	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$15,150.00	\$2,920.00	200' of 2" conduit @\$25/ft 100' of 4" conduit @\$96/ft	\$2,190.25	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$19,200.00	Includes costs for transformer and new electrical panels per ATC quote.	\$14,400.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$7,260.00	N/A	\$5,445.00	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$2,740.00	N/A	\$2,055.00	N/A

Microwave Link to Interim Site	\$119,289.40	\$119,289.40	Per attached quote from Vislink.	\$49,996.80	N/A
Engineering and Design	\$192,061.02	\$192,061.02	Main: \$112,992.35 Interim: \$79,068.67 Site Survey and Lidar Scanning Outdoor Cooling Equipment Study Design Coordination and Construction /Permit Set Construction Phase Services (Site Inspection Visits /Punchlist)	N/A	N/A
RF Monitoring	\$22,000.00	\$22,000.00	N/A	N/A	N/A
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$1,550,180.32	N/A	\$465,054.10	N/A
Primary Transmitter THU9-60 EVO 88.8kW	\$2,718,800.00	\$2,194,418.59		\$633,725.58	
Other Electrical Service: Conduit and	\$30,000.00	\$30,000.00	N/A	N/A	N/A

wiring material and labor costs required for new transmitter.					
RF Monitor	\$22,000.00	\$22,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	\$2,630,000.00	\$2,112,418.59	N/A	\$633,725.58	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$30,000.00	N/A	\$0.00	N/A
Auxiliary Transmitter Ranger CZ1000L	\$137,800.00	\$44,131.25		\$0.00	
30 kW mask filter	\$32,600.00	\$30,000.00	Existing backup transmitter cannot be retuned. Estimate is for retuning interim transmitter for post- transition channel, which is less expensive than replacing existing backup transmitter.	N/A	N/A
UHF and VHF - minor	\$105,200.00	\$14,131.25	Existing backup	N/A	N/A

## Components

Actual Information Description	File Name	
Other Building Addition Size: 250.0	Component Description:	Approx. 600 to
		1500 square foot addition (costs vary with location, site access, and construction type) \$900.00 Testing
	Amount:	for Asbestos and Lead Paint \$900.00 \$1,800.00

Other HVAC Service Type: C Size:20 (Other) Component Description:	
	20 Ton System \$11,000.00 Ice Shield for HVAC equipment
Amount:	\$2,000.00 \$13,000.00
Component Description:	20 Ton System \$5,500.00 Ice Shield for HVAC equipment \$1,000.00
Amount:	\$6,500.00
4" Rigid Conduit and Wiring (Cost per foot) Component Description:	2inch Rigid Conduit and Wiring (Cost per foot) \$250.00 4inch Rigid Conduit and Wiring (Cost per foot) \$480.08

	Component Description: Amount:	2inch Rigid Conduit and Wiring (Cost per foot) \$500.00 4inch Rigid Conduit and Wiring (Cost per foot) \$960.17 \$1,460.17
Transformer 3 phase/480v - 300 KVA	Component Description:	Transformer 3 phase/480v- 500KVA \$2,300. Other Transmitter Cost Not Listed: New electrical sub- panels \$2,500. \$4,800.00
	Component Description: Amount:	Transformer 3 phase/480v- 500KVA \$4,600. Other Transmitter Cost Not Listed: New electrical sub- panels \$5,000. \$9,600.00
Switchgear - industrial 800 amp	Component Description: Amount: Component Description: Amount:	Switchgear - Industrial 800 amp \$3,630.00 Switchgear - Industrial 800 amp \$1,815.00
Service entrance 3 phase /800 amp/208 volt		

	Component Description: Amount:	Service entrance 3 phase/800 amp /208 volt \$1,370.00
	Component Description: Amount:	Service entrance 3 phase/800 amp /208 volt. \$685.00
Microwave Link to Interim Site	Component Description:	WGBX Cabot Street, Duplex NON-Standby STL /TSL STL - 7012.5 MHz and TSL 6912.5MHz. G3 - Antennas, Waveguide and accessories. \$49,996.80
Engineering and Design	Information not provided.	
RF Monitoring	Information not provided.	
UHF inside RF system including switching	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description: Amount:	30% Downpayment for WGBX CH43 THU9-EVO 73.5 kW ATSC/67kW OFDM. \$465,054.10
Other Electrical Service: Conduit and wiring material and labor costs required for new transmitter.	Information not provided.	
RF Monitor	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	Component Description: Amount:	30% Downpaymer \$633,725.58
Transformer 3 phase/480v - 300 KVA	Information not provided.	
30 kW mask filter	Information not provided.	
UHF and VHF - minor banding issues	Information not provided.	

## Antennas

## Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TUM-AP-04- 14/56-2-B	\$1,262,380.00	\$280,962.00		\$210,721.80	
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$71,302.00	N/A	\$53,476.80	N/A
Tower rental	\$57,600.00	\$57,600.00	One-time tower rental during market repack period.	\$43,200.00	N/A
Combiner Installation	\$7,000.00	\$7,000.00	N/A	\$5,250.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$6,660.00	N/A	\$4,995.00	N/A
Sweep test of existing antenna	\$6,730.00	\$3,000.00	N/A	\$2,250.00	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$135,400.00	Actual cost from American Tower based on design and fabrication of the four station combining system.	\$101,550.00	N/A
Primary Antenna TUM-AP-04- 14/56-2-T	\$1,204,780.00	\$254,763.00		\$61,937.50	
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$148,613.00	N/A	\$32,500.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$1,250.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$9,000.00	N/A	\$2,500.00	N/A
Combiner Installation	\$7,000.00	\$7,000.00	N/A	\$2,812.50	N/A
New combiner, cost per	\$84,200.00	\$83,750.00	Actual cost inclusive of \$8750 installation charge.	\$22,875.00	N/A

channel (without antenna)					
Sub-total	\$2,467,160.00	\$535,725.00	N/A	\$272,659.30	N/A
Total for all systems	\$10,063,110.42	\$5,531,970.58	N/A	\$1,672,978.73	N/A

Actual Information Description	File Name	
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	Component Description: Amount:	Four station broadband panel antenna, elliptically or circularly polarized \$17,825.60
	Component Description: Amount:	Four station broadband panel antenna, elliptically or circularly polarized. \$35,651.20
Tower rental	Component Description:	ATC one-time tower rental during
	Amount:	market repack period. \$14,400.00
	Component Description:	ATC one-time tower rental during market repack
	Amount:	period. \$28,800.00
Combiner Installation		

	Component Description: Amount:	Combiner installation \$1,750.00
	Component Description: Amount:	Combiner installation \$3,500.00
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	Elbow complex, single channel, at antenna input
	Amount:	\$1,665.00
	Component Description:	Elbow complex, single channel, at antenna input
	Amount:	\$3,330.00
Sweep test of existing antenna	Component Description:	Sweep test of transmission line
	Amount:	and antenna. \$750.00
	Component Description:	Sweep test of transmission line and antenna.
	Amount:	\$1,500.00
New combiner, cost per channel (without antenna)	Component Description:	New combiner, cost per channel
	Amount:	(without antenna) \$33,850.00

	Component Description: Amount:	New combiner, cost per channel (without antenna) \$67,700.00
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	Component Description:	\$31,562.50 UHF - High Power Top Mount (200-1000 kW) Four station broadband panel antenna, elliptically or circularly polarized. \$937.50 Side mount brackets for high power antennas. \$32,500.00
Sweep test of existing antenna	Component Description: Amount:	Sweep test of transmission line and antenna. \$1,250.00
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description: Amount:	Elbow complex, broadband, at antenna input, per 8 3/16 feedline (if needed). \$2,500.00
Combiner Installation	Component Description: Amount:	Combiner installation. \$2,812.50
New combiner, cost per channel (without antenna)		

Component Description:	New combiner,
	cost per channel
	(without antenna).
Amount:	\$22,875.00

# **Transmission Line**

### Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$832,500.00	\$87,900.00		\$65,925.00	
Rigid Transmission Line - copper, 7 3 /16" broadband	\$832,500.00	\$87,900.00	Transmission Line \$84,900 Nitrogen Generator Upgrade \$3,000	\$65,925.00	N/A
Primary Transmission Line	\$30,000.00	\$30,000.00		\$12,937.50	
Transmission line refurbish	\$30,000.00	\$30,000.00	Cost to refurbish two (2) existing 8- 3/16" transmission lines per ATC quote	\$12,937.50	N/A
Sub-total	\$862,500.00	\$117,900.00	N/A	\$78,862.50	N/A
Total for all systems	\$10,063,110.42	\$5,531,970.58	N/A	\$1,672,978.73	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 7 3/16" broadband	Component Description:	8 3/16inch \$21,225.00 Nitrogren Generator
	Amount:	Upgrade \$750.00 \$21,975.00

	Component Description:	8 3/16inch \$42,450.00 Nitrogren
		Generator Upgrade \$1500.00
	Amount:	\$43,950.00
Transmission line refurbish		
	<b>Component Description:</b>	\$12,187.50 8 3
		/16" broadband
		\$750.00 Nitrogen
		Generator
		Upgrade.
	Amount:	\$12,937.50

# **Tower Equipment and Rigging Costs**

#### Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificati
Primary Tower GTOWER	\$404,200.00	\$119,900.00		\$13,012.50	
Minor tower reinforcement /modifications	\$158,000.00	\$25,000.00	N/A	\$7,562.50	N/A
Tower Permit Package	\$9,400.00	\$9,400.00	Tower permit drawing plus ground & building A&E permit drawing per attached ATC quote \$4,700 + \$4,700.	\$2,350.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$3,100.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$60,500.00	N/A	\$0.00	N/A
Auxiliary Tower GTOWER	\$608,400.00	\$167,900.00		\$85,287.70	
Complex Tower (includes, for example,	\$421,000.00	\$119,000.00	Rigging, testing for asbestos and lead paint, site	\$60,487.70	N/A

those with candelabras and/or stacked antennas)			security, public hearing, and tower rental per attached ATC quote		
Tower Permits	\$9,400.00	\$9,400.00	Tower permit drawing plus ground & building A&E permit drawing per attached ATC quote	\$7,050.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$20,500.00	Major tower reinforcement /modification \$17,500 Construction project management (Tower modifications reinforcements and facilities) \$3,000	\$15,375.00	N/A
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,000.00	N/A	\$2,375.00	N/A
Sub-total	\$1,012,600.00	\$287,800.00	N/A	\$98,300.20	N/A
Total for all systems	\$10,063,110.42	\$5,531,970.58	N/A	\$1,672,978.73	N/A

	Component Description:	\$6,250.00 Minor tower reinforcement /modifications (Labor and materials) \$1,312.50 Construction project management (Tower Modification reinforcements and facilities) \$7,562.50
Tower Permit Package		
	Component Description: Amount:	\$1,175 Tower Permit Drawing Package. \$1,175 Ground & Building A&E Permit Drawing Package. \$2,350.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description: Amount:	Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study \$620.00
	Component Description: Amount:	Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study. \$1,240.00

	Component Description: Amount:	Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study \$1,240.00
Tall Tower (greater than 500')	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Amount:	Complex Tower \$13,975.07
	Component Description: Amount:	Complex Tower \$27,950.13
	Component Description: Amount:	Complex Tower. \$18,562.50
Tower Permits	Component Description: Amount:	Tower Permit Drawing Package \$1,175.00 Ground & Building A&E Permit Drawing Package \$1,175.00 \$2,350.00
	Component Description: Amount:	Tower Permit Drawing Package \$2,350.00 Ground & Building A&E Permit Drawing Package \$2,350.00 \$4,700.00
Minor tower reinforcement		

	Component Description:	Major tower
		reinforcement
		/modification
		\$4,375.00
		Construction
		project
		management
		(Tower
		modification
		reinforcements and
		facilities) \$750.00
	Amount:	\$5,125.00
	Amount.	ψ <b>3</b> , 123.00
	Component Description:	Major tower
		reinforcement
		/modification
		\$8,750.00
		Construction
		project
		management
		(Tower
		modification
		reinforcements and
		facilities) \$1,500.00
	Amount:	\$10,250.00
Structural engineering		
tower load study for a	Component Description:	Structural
documented tower with		engineering tower
candelabra		load study for a
		documented tower
		with candelabra.
	Amount:	\$950.00
	Component Description:	Structural
		engineering tower
		load study for a
		documented tower
		with candelabra
	Amount:	\$475.00

Component Description:	Structural engineering tower load study for a documented tower
Amount:	with candelabra \$950.00

# **Outside Professional Services**

# Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificati
Outside Professional Services	\$139,860.00	\$158,545.00		\$16,855.00	
Project management of the transition	\$15,010.00	\$35,460.00	Primary: 44 hrs construction project mgt + 94.8 hrs of project mgt for transition + RF sys test Interim: 24 hrs construction project mgt + 94.8 hrs project mgt for transition + RF sys test Per attached ATC quotes	\$9,480.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$6,075.00	\$5,000 ATC \$1,075.00 Orion Broadcast Solutions.	\$5,000.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$6,260.00	Address transition timing and site coordination meeting for primary and interim sites per attached ATC quotes.	\$2,375.00	N/A

Prepare and or review reimbursement form	\$2,630.00	\$5,000.00	Complex request with shared tower and need for interim facilities, also to be shared with multiple broadcasters; responding to FCC inquiries.	N/A	N//
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/J
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	N/A	N/
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/J
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/

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 request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Field study \$80,000 - vendor unknown	N/A	N/A
Sub-total	\$139,860.00	\$158,545.00	N/A	\$16,855.00	N/A
Total for all systems	\$10,063,110.42	\$5,531,970.58	N/A	\$1,672,978.73	N/A

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project management of the transition, if needed. \$2,370.00
	Component Description: Amount:	Project management of the transition, if needed (Cost per hour per customer) \$2,370.00

	Component Description: Amount:	Project management of the transition, if needed (Cost per hour per customer) \$4,740.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Perform engineering study for new channel assignment and antenna development. \$1,250.00
	Component Description:	Perform engineering study for new channel assignment and antenna development (Cost per customer) \$1,250.00
	Component Description:	Perform engineering study for new channel assignment and antenna development (Cost per customer) \$2,500.00
Address transition timing and coordination issues w/ other stations and wireless		

	Component Description: Amount:	Address transition timing and coordination issues with other stations and wireless. \$500.00
	Component Description:	Address transition timing and coordination issues with other stations and wireless (Cost per customer) \$625.00
	Component Description: Amount:	Address transition timing and coordination issues with other stations and wireless (Cost per customer) \$1,250.00
Prepare and or review reimbursement form	Information not provided.	
Prepare engineering section of 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 request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Attorney Fees -Prepare and	Information not provided.
File FCC Form 2100 (main),	
License to Cover Application	
Attorney Fees - Negotiation	Information not provided.
of lease and other matters	
for shared locations	
Attorney Fees - Prepare and	Information not provided.
File request for Special	
Temporary Authorization	
Comprehensive coverage	Information not provided.
verification via field study, if	
needed	

# **Other Expenses**

# Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$87,190.00	\$85,000.00		\$11,235.00	
Equipment Storage	\$5,000.00	\$5,000.00	N/A	\$2,700.00	N/A
Equipment Delivery and Handling Charges	\$8,500.00	\$8,500.00	Includes primary and interim sites per ATC quotes.	\$3,625.00	N/A
Local Zoning	\$1,240.00	\$1,240.00	Public hearing for primary and interim sites per ATC quotes. ATC Public Hearing \$400	\$1,160.00	N/A
RF System Commission	\$8,000.00	\$8,000.00	Includes primary and interim sites per ATC quotes.	\$3,250.00	N/A
Pre planning survey and engineering	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Site coordination meetings	\$1,760.00	\$1,760.00	N/A	\$500.00	N/A
MVPD Notification of Channel	\$8,000.00	\$8,000.00	N/A	N/A	N/A

Change					
Develop and air announcement of upcoming channel change	\$30,000.00	\$30,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Non-zoning permits	\$1,500.00	\$1,500.00	Includes primary and interim sites per ATC quotes.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$0.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$0.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$0.00	N/A	N/A	N/A
Sub-total	\$87,190.00	\$85,000.00	N/A	\$11,235.00	N/A
Total for all systems	\$10,063,110.42	\$5,531,970.58	N/A	\$1,672,978.73	N/A

Actual Information Description	File Name	
Equipment Storage	Component Description:	Site Security Company during construction for theft prevention
	Amount:	and vandalism. \$900.00
	Component Description:	Site Security Company during construction for theft prevention and vandalism.
	Amount:	\$1,800.00
Equipment Delivery and Handling Charges	Component Description:	Equipment Delivery and Handling Charges (Cost per customer)
	Amount:	\$750.00
	Component Description:	Equipment Delivery and Handling Charges (Cost per customer)
	Amount:	\$1,500.00
	Component Description:	Equipment Delivery and Handling Charges.
	Amount:	\$1,375.00
Local Zoning		

	Component Description: Amount:	Obtain building permits from loca zoning authoritie \$187.50 Public Hearing. \$100 \$287.50
	Component Description: Amount:	Obtain building permits from loca zoning authoritie \$375.00 Public Hearing. \$200.00 \$575.00
	Component Description: Amount:	\$187.50 Obtain building permits from local zoning authorities. \$110.00 Public Hearing. \$297.50
RF System Commission	Component Description: Amount:	RF System Test. \$1,375.00
	Component Description: Amount:	RF System Test \$625.00
	Component Description: Amount:	RF System Test \$1,250.00
Pre planning survey and engineering	Information not provided.	

MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$10,063,110.42	\$5,531,970.58	\$1,672,978.73

Reimbursem	enrestanus	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	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 912(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> </ol>	
		2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	
		3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	
		<ul> <li>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</li> </ul>	

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.
- 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 Emeric an authorized representative of the above-Feldmar named applicant for the Authorization(s) Director of specified above. Engineering 11/28/2018

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<ul> <li>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).</li> <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> <li>4. The above-named entity acknowledges the submission of the information herein</li> </ul>	

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).
- 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

<ul> <li>must be promptly refunded to the Commission.</li> <li>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.</li> </ul>	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	Emeric Feldmar Director of Engineering 11/28/2018

### Attachments