

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

72098 Service: DTV Call WGBX-TV Channel: 43 (UHF) Facility Sign:

ID:

File 0000028580

Number:

FRN: 0003764560 Date 02/20

> Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

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 Contact Information

Preparer Contact Name and 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 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	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

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

Auxiliary Transmitter

Retuning Transmitter Costs

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 Transmitter

Other Transmitter Costs

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

Auxiliary Transmitter Unformation not provided.

Other Transmitter Cost Not Listed

Primary Transmitter

Add Transmitter Information

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

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	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 Transmitter

Other Transmitter Cost Not Listed

Name	Description
RF Monitor	RF Monitor System

Interim Transmitter

New Transmitter Costs

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 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	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

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description
RF Monitoring	RF monitoring system
Microwave Link to Interim Site	Link from studio to interim transmitter site
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

Antennas

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

Primary Antenna

Add Antenna Information

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	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Туре	Broadband Panel
	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 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.

RF Channel Number
20
21
32
33

Primary Antenna

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?	Yes
	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	Broadband Panel
	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 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?	В
	Feed Line Size	8 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 transmission line and antenna? Yes

Enter a list of RF channel numbers.

RF Channel Number
33
20
21
32

Interim Antenna

Other Antenna Cost Not Listed

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

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

Primary Transmission

Existing Transmission Line

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	Manufacturer	Dielectric
Line Manufacturer and Type	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 Transmission	ndaine	Description
	Transmission line refurbish	Refurbish existing transmission lines per ATC.

Interim **Transmission**

New Transmission Line

Transmission Emb		
on Line Section	Question	Response
New Transmission Line	Use	Interim
Costs	Description of Use	N/A
	Change Type	Lease New
	Туре	Rigid
	Diameter	8 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

accommodate interim antenna.

Other Transmission Line Expenses Not Listed

Transmission loine tion 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

Auxiliary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	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
49385	WXRV	FM
13806	WZLX	FM
26897	WWBX	FM
9639	WODS	FM
1901	WBZ-FM	FM
6463	WFXT	DTV

Auxiliary Tower

Tower Modification Costs

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

Auxiliary Tower

Tower Rigging Costs

Section	Question	Response
Section	Question	Response

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

Auxiliary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Permits	Permits

Primary Tower

Existing 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	Do you have a tower registration number?	Yes
Structure Registration	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
72099	WGBH-TV	DTV
25456	WBZ-TV	DTV
65684	WCVB-TV	DTV
73982	WSBK-TV	DTV
10542	WKLB-FM	FM
68241	WBUR-FM	FM

Primary Tower

Tower Modification Costs

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

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Permit Package	Generation of a construction drawing package per ATC quote

Outside Professional

Section	Question	Response
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	shared antenna and related infrastructure nnel Yes CC Yes No Yes CC Yes No Yes No Yes
	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

		ı
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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

Outside
Outside
Professional Services Expenses Not Listed
Professional Services © pstsided.

Other Expenses

Section	Question	Response
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

Other Expenses Not Listed

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.

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
Interim Transmitter THU9-EVO 73.5 kW	\$2,672,797.61	\$2,233,498.93		\$530,480.98	
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$108,651.00	ATC quote \$19,200. C&W quote \$89,451 The ATC Needham site did not have adequate available power to service the interim TRX. Add. utility power was required, as well as associated switch gear and transformers beyond initial estimate.	\$4,800.00	N/A
Microwave Link to Interim Site	\$150,094.77	\$150,094.77	Per attached quote from Vislink. \$119,289.40 Evertz quote CCCQ55261-04 50% cost share. \$24,370.87 Evertz quote CCCQ47196-	\$49,996.80	N/A

			02 50% cost share \$6,434.50		
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	\$0.00	N/A
Other Building Addition Size: 250.0	\$31,591.82	\$31,591.82	Includes Ice shield and permitting per ATC quote \$26,800.00. Bomara Assoc. \$4,791.82	\$900.00	N/A
Other HVAC	\$26,000.00	\$26,000.00	Includes Ice Shield for HVAC	\$6,500.00	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	\$730.08	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$7,260.00	N/A	\$1,815.00	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$2,740.00	N/A	\$685.00	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		\$360,773.98	
Other Electrical Service: Conduit and wiring material and labor costs required for new transmitter.	\$30,000.00	\$30,000.00	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	\$360,773.98	N/A
Transformer 3 phase /480v - 300	\$36,800.00	\$30,000.00	N/A	\$0.00	N/A

RF Monitor	\$22,000.00	\$22,000.00	N/A	N/A	N/A
Auxiliary Transmitter Ranger CZ1000L	\$137,800.00	\$44,131.25		\$0.00	
UHF and VHF - minor banding issues	\$105,200.00	\$14,131.25	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
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
Sub-total	\$5,529,397.61	\$4,472,048.77	N/A	\$891,254.96	N/A
Total for all	\$10,270,057.61	\$5,834,316.79	N/A	\$1,012,823.13	N/A

Components

Actual Information Description	File Name	
Transformer 3 phase/480v - 300 KVA	Component Description:	Transformer 3 phase/480v- 500KVA \$4,600. Other Transmitter Cost Not Listed: New electrical sub- panels \$5,000.
	Amount:	\$9,600.00
	Component Description:	30% Deposit for
	Amount:	Interim electrical. \$26,835.30
	7 modili.	Ψ20,000.00
	Component Description:	40% Progress
		payment for Interim electrical.
	Amount:	\$35,780.40
	Component Description:	Transformer 3 phase/480v- 500KVA \$2,300. Other Transmitter Cost Not Listed: New electrical sub- panels \$2,500.
	Amount:	\$4,800.00
Microwave Link to Interim Site	Component Description:	50% WGBX shared expense.
		Ethernet
		Transceiver.
	Amount:	\$24,370.87

Component Description: 50% WGBX

shared expense.

Ethernet Transceiver.

Amount: \$6,434.50

Component Description: WGBX Cabot

Street, Duplex NON-Standby STL /TSL STL - 7012.5 MHz and TSL 6912.5MHz. G3 -

Antennas,

Waveguide and accessories.

Amount: \$49,996.80

Engineering and Design Information not provided.

RF Monitoring Information not provided.

UHF inside RF system Information not provided.

Other -- Building Addition

including switching

Size: 250.0

Component Description: Approx. 600 to

1500 square foot addition (costs vary with location, site access, and construction type) \$900.00 Testing for Asbestos and Lead Paint \$900.00

Amount: \$1,800.00

Component Description: 50% WGBX

shared expense. UPS for transmitter

electronics.

Amount: \$4,791.82

Component Description: Approx. 600 to

1500 square foot addition (costs vary with location, site access, and construction type) \$450.00 Testing for Asbestos and Lead Paint \$450.00

Amount: \$900.00

Other -- HVAC Service Type: C Size:20 (Other)

Component Description: 20 Ton System

\$11,000.00 Ice Shield for HVAC equipment

\$2,000.00

Amount: \$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

(Cost per foot) \$500.00 4inch Rigid Conduit and Wiring (Cost per

Conduit and Wiring

foot) \$960.17

Amount: \$1,460.17

	Component Description: Amount:	2inch Rigid Conduit and Wiring (Cost per foot) \$250.00 4inch Rigid Conduit and Wiring (Cost per foot) \$480.08 \$730.08
Switchgear - industrial 800 amp	Component Description: Amount:	Switchgear - Industrial 800 amp \$3,630.00
	Component Description: Amount:	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.
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description:	30% Downpayment for WGBX CH43 THU9-EVO 73.5
	Amount:	kW ATSC/67kW OFDM. \$465,054.10
Other Electrical Service: Conduit and wiring material and labor costs required for	Information not provided.	

new transmitter.

UHF - Liquid Cooled Solid		
State Transmitter 86.8 . 106 kW	Component Description:	30%
KVV		Downpayment of
		Like-for-Like Total
		of \$1,202,579.92.
	Amount:	\$360,773.98
Transformer 3 phase/480v - 300 KVA	Information not provided.	
RF Monitor	Information not provided.	
UHF and VHF - minor banding issues	Information not provided.	
30 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
Interim Antenna TUM-AP-04- 14/56-2-B	\$1,264,480.00	\$280,962.00		\$70,240.60	
Combiner Installation	\$7,000.00	\$7,000.00	N/A	\$1,750.00	N/A
Tower rental	\$57,600.00	\$57,600.00	One-time tower rental during market repack period.	\$14,400.00	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$6,660.00	N/A	\$1,665.00	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.	\$33,850.00	N/A
Sweep test of existing antenna	\$6,730.00	\$3,000.00	N/A	\$750.00	N/A
UHF - High	\$1,090,000.00	\$71,302.00	N/A	\$17,825.60	N/A

Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized

channel

polarized					
Primary Antenna TUM-AP-04- 14/56-2-T	\$1,209,030.00	\$240,000.00		\$0.00	
Combiner Installation	\$11,250.00	\$11,250.00	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$5,000.00	N/A	\$0.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$10,000.00	N/A	\$0.00	N/A
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$130,000.00	\$126,250 plus side mount bracket expense of \$3,750.	\$0.00	N/A
New combiner, cost per	\$84,200.00	\$83,750.00	Actual cost inclusive of	\$0.00	N/A

Sub-total	\$2,473,510.00	\$520,962.00	N/A	\$7
antenna)			installation charge.	
(without			\$8750	

Sub-total	\$2,473,510.00	\$520,962.00	N/A	\$70,240.60	N/A
Total for all systems	\$10,270,057.61	\$5,834,316.79	N/A	\$1,012,823.13	N/A

Components

Actual Information Description	File Name	
Combiner Installation	Component Description: Amount:	Combiner installation \$3,500.00
	Component Description: Amount:	Combiner installation \$1,750.00
Tower rental	Component Description:	ATC one-time tower rental during market repack period.
	Amount:	\$28,800.00
	Component Description:	ATC one-time tower rental during market repack period.
	Amount:	\$14,400.00
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)		

Component Description: Elbow complex,

single channel, at antenna input, per 8-3/16" feedline (if

needed).

Amount: \$3,330.00

Component Description: Elbow complex,

single channel, at antenna input, per 8 3/16" feedline (if

needed).

Amount: \$1,665.00

New combiner, cost per channel (without antenna)

Component Description: New combiner,

cost per channel (without antenna)

Amount: \$67,700.00

Component Description: New combiner,

cost per channel (without antenna)

Amount: \$33,850.00

Sweep test of existing antenna

Component Description: Sweep test of

transmission line and antenna.

Amount: \$1,500.00

Component Description: Sweep test of

transmission line and antenna.

Amount: \$750.00

UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized

Four station **Component Description:** broadband panel antenna. elliptically or circularly polarized. \$35,651.20 Amount: **Component Description:** Four station broadband panel antenna, elliptically or circularly polarized Amount: \$17,825.60 Combiner Installation **Component Description:** Combiner installation. Amount: \$2,812.50 Sweep test of existing antenna **Component Description:** Sweep test of transmission line and antenna. Amount: \$1,250.00 Elbow complex, broadband, at antenna input, per 7 3/16. **Component Description:** Elbow complex, feedline (if needed) broadband, at antenna input, per 8 3/16 feedline (if needed). Amount: \$2,500.00 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.
	Amount:	\$32,500.00
New combiner, cost per		
channel (without antenna)	Component Description:	New combiner,
	Component Becompact.	cost per channel
		(without antenna).
	Amount:	\$22,875.00
	,	Ψ22,070.00

Cost Information

Transmission Line

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

Description Interim Transmission Line	Predetermined Cost Estimate \$997,500.00	Estimated Cost \$87,900.00	Estimated Cost Justification	Actual Cost \$21,975.00	Actual Cost Justification
Rigid Transmission Line - copper, 8 3 /16" broadband	\$997,500.00	\$87,900.00	Rigid Transmission Line - copper 8 3/16" \$84,900.00 and Nitrogen Generator Upgrade \$3,000.00.	\$21,975.00	N/A
Primary Transmission Line	\$30,000.00	\$30,000.00		\$0.00	
Transmission line refurbish	\$30,000.00	\$30,000.00	Cost to refurbish two (2) existing 8- 3/16" transmission lines per ATC quote	\$0.00	N/A
Sub-total	\$1,027,500.00	\$117,900.00	N/A	\$21,975.00	N/A
Total for all systems	\$10,270,057.61	\$5,834,316.79	N/A	\$1,012,823.13	N/A

Components

Actual Information Description	File Name
Rigid Transmission Line - copper, 8 3/16" broadband	

Component Description: Rigid

Transmission Line - copper 8 3/16" \$42,450.00 and

Nitrogen Generator Upgrade \$1,500.00.

Amount: \$43,950.00

Component Description: Rigid

Transmission Line - copper 8 3/16" \$21,225.00 and

Nitrogen Generator

Upgrade \$750.00.

Amount: \$21,975.00

Transmission line refurbish

Component Description: \$12,187.50 8 3/16"

broadband

\$750.00 Nitrogen

Generator
Upgrade.

Amount: \$12,937.50

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 C
Primary Tower GTOWER	\$404,200.00	\$119,900.00		\$620.00	
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.	\$0.00	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	\$620.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$25,000.00	N/A	\$0.00	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		\$21,925.07	
Complex Tower (includes, for example,	\$421,000.00	\$119,000.00	Rigging, testing for asbestos and lead paint, site	\$13,975.07	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	\$2,350.00	N/A
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,000.00	N/A	\$475.00	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	\$5,125.00	N/A
Sub-total	\$1,012,600.00	\$287,800.00	N/A	\$22,545.07	N/A
Total for all systems	\$10,270,057.61	\$5,834,316.79	N/A	\$1,012,823.13	N/A

Components

Actual Information	
Description	File Name

Tower Permit Package

Component Description: \$1,175 Tower

Permit Drawing Package. \$1,175 Ground & Building

A&E Permit

Drawing Package.

Amount: \$2,350.00

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Component Description: Tower mapping for

an undocumented

/poorly

documented tower and preparation of documentation necessary for tower load study

Amount: \$620.00

Component Description: Tower mapping for

an undocumented

/poorly

documented tower and preparation of documentation necessary for tower load study.

Amount: \$1,240.00

Component Description: Tower mapping for

an undocumented

/poorly

documented tower and preparation of documentation necessary for tower load study

Amount: \$1,240.00

Minor tower reinforcement /modifications

	Component Description: Amount:	\$6,250.00 Minor tower reinforcement /modifications (Labor and materials) \$1,312.50 Construction project management (Tower Modification reinforcements and facilities) \$7,562.50
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. \$18,562.50
	Component Description: Amount:	Complex Tower \$27,950.13
	Component Description: Amount:	Complex Tower \$13,975.07
Tower Permits	Component Description:	Tower Permit Drawing Package \$2,350.00 Ground & Building A&E Permit Drawing Package \$2,350.00
	Amount:	\$4,700.00

Component Description: Tower Permit

Drawing Package \$1,175.00 Ground & Building A&E Permit Drawing Package \$1,175.00

Amount: \$2,350.00

Structural engineering tower load study for a documented tower with candelabra

Component Description: Structural

engineering tower load study for a documented tower with candelabra.

Amount: \$950.00

Component Description: Structural

engineering tower load study for a documented tower with candelabra

\$950.00

Component Description: Structural

Amount:

engineering tower load study for a documented tower with candelabra

Amount: \$475.00

Minor tower reinforcement /modifications

Component Description: Major tower

reinforcement
/modification
\$8,750.00
Construction
project
management
(Tower
modification

reinforcements and facilities) \$1,500.00

Amount: \$10,250.00

Component Description: Major tower

reinforcement /modification \$4,375.00 Construction

project

management

(Tower modification

reinforcements and facilities) \$750.00

Amount: \$5,125.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Outside Professional Services	\$139,860.00	\$350,606.02		\$4,245.00	
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Field study \$80,000 - vendor unknown	N/A	N/A
Project management of the transition	\$15,010.00	\$227,521.02	Primary: 44 hrs constr. proj. mgt + 94.8 hrs of proj. mgt for transition + RF sys test Interim: 24 hrs constr. proj. mgt + 94.8 hrs proj. mgt for transition + RF sys test Per ATC quotes \$35,460.00 EJC Int. Svcs \$79,068.67 EJC Int. Svcs \$112,992.35	\$2,370.00	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	N/A	N/A

to FCC inquiries.

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.	\$625.00	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.	\$1,250.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	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

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 - 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
Sub-total	\$139,860.00	\$350,606.02	N/A	\$4,245.00	N/A
Total for all systems	\$10,270,057.61	\$5,834,316.79	N/A	\$1,012,823.13	N/A

Components

Components		
Actual Information Description	File Name	
Comprehensive coverage verification via field study, if needed	Information not provided.	
Project management of the transition	Component Description:	Project management of the transition, if needed.
	Amount:	\$2,370.00

Component Description: Project

management of the transition, if needed (Cost per hour per customer)

Amount: \$4,740.00

Component Description: WGBX UHF Main:

Design

Coordination and Construction.

Amount: \$34,237.45

Component Description: WGBX UHF Main:

Site Survey, Outdoor Cooling Equip. Study, Demo Plan.

Amount: \$21,312.32

Component Description: WGBX TRX

Interim: Site Survey, Outdoor

Cooling Equipment.

Amount: \$7,127.52

Component Description: WGBX TRX

Interim: Design
Coordination and
Construction
\$51,537,31

Amount: \$51,537.31

Component Description: WGBX TRX

Interim: Construction Phase Services.

Amount: \$4,894.40

	Component Description: Amount:	Project management of the transition, if needed (Cost per hour per customer) \$2,370.00
Prepare and or review reimbursement form	Information not provided.	
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: Amount:	Address transition timing and coordination issues with other stations and wireless (Cost per customer) \$1,250.00
	Component Description: Amount:	Address transition timing and coordination issues with other stations and wireless (Cost per customer) \$625.00
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: Amount:	Perform engineering study for new channel assignment and antenna development (Cost per customer) \$2,500.00
	Component Description: Amount:	Perform engineering study for new channel assignment and antenna development (Cost per customer) \$1,250.00
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 of lease and other matters for shared locations	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	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
Other Expenses	\$87,190.00	\$85,000.00	Justinication	\$2,562.50	Justinication
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	\$0.00	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
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$0.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$0.00	N/A	N/A	N/A
Local Zoning	\$1,240.00	\$1,240.00	Public hearing for primary and interim sites per ATC quotes.	\$287.50	N/A

			ATC Public Hearing \$400		
Non-zoning permits	\$1,500.00	\$1,500.00	Includes primary and interim sites per ATC quotes.	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
Equipment Delivery and Handling Charges	\$8,500.00	\$8,500.00	Includes primary and interim sites per ATC quotes.	\$750.00	N/A
Equipment Storage	\$5,000.00	\$5,000.00	N/A	\$900.00	N/A
Develop and air announcement of upcoming channel change	\$30,000.00	\$30,000.00	N/A	N/A	N/A
RF System Commission	\$8,000.00	\$8,000.00	Includes primary and interim sites per ATC quotes.	\$625.00	N/A
MVPD Notification of Channel Change	\$8,000.00	\$8,000.00	N/A	N/A	N/A
Sub-total	\$87,190.00	\$85,000.00	N/A	\$2,562.50	N/A
Total for all systems	\$10,270,057.61	\$5,834,316.79	N/A	\$1,012,823.13	N/A

Components

Actual Information Description	File Name	
Pre planning survey and engineering	Information not provided.	
Site coordination meetings		
	Component Description:	Site Coordination Meeting.
	Amount:	\$500.00
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
Local Zoning		
	Component Description:	\$187.50 Obtain building permits from local zoning authorities. \$110.00 Public Hearing.
	Amount:	\$297.50
	Component Description:	Obtain building permits from local zoning authorities. \$375.00 Public Hearing. \$200.00
	Amount:	\$575.00

	Component Description: Amount:	Obtain building permits from local zoning authorities. \$187.50 Public Hearing. \$100 \$287.50
Non-zoning permits	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Equipment Delivery and Handling Charges	Component Description:	Equipment Delivery and Handling Charges.
	Amount:	\$1,375.00
	Component Description:	Equipment Delivery and Handling Charges (Cost per customer)
	Amount:	\$1,500.00
	Component Description:	Equipment Delivery and Handling Charges (Cost per customer)
	Amount:	\$750.00
Equipment Storage		
	Component Description:	Site Security Company during construction for theft prevention and vandalism.
	Amount:	\$1,800.00

	Component Description: Amount:	Site Security Company during construction for theft prevention and vandalism. \$900.00
Develop and air announcement of upcoming channel change	Information not provided.	
RF System Commission	Component Description: Amount:	RF System Test. \$1,375.00
	Component Description: Amount:	RF System Test \$1,250.00
	Component Description: Amount:	RF System Test \$625.00
MVPD Notification of Channel Change	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$10,270,057.61	\$5,834,316.79	\$1,012,823.13

Reimbursem	entestatus	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

Section Question Response

Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the

signal of a broadcaster that changes channels (MVPD).

- 5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Emeric Feldmar Director of Engineering

02/20/2019

Section Question Response

Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 4. The above-named entity acknowledges the submission of the information herein

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

must be promptly refunded to the Commission.

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

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Emeric Feldmar Director of Engineering

02/20/2019

Attachments