

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

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

Sign:

File 0000028580

Number:

FRN: 0003764560 Date 01/02

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

#### 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 (	Latitude (NAD83)	42° 18' 37.0" N-
North American Datum of 1983))	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
10542	WKLB-FM	FM
68241	WBUR-FM	FM
72099	WGBH-TV	DTV
73982	WSBK-TV	DTV
65684	WCVB-TV	DTV
25456	WBZ-TV	DTV

#### 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	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

		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	\$2,637,200.42	\$2,108,450.74		\$561,341.15	
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
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
UHF inside RF system including switching	\$147,500.00	\$140,000.00	N/A	N/A	N/A
RF Monitoring	\$22,000.00	\$22,000.00	N/A	N/A	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	N/A	N/A

			Construction Phase Services (Site Inspection Visits /Punchlist)		
Microwave Link to Interim Site	\$119,289.40	\$119,289.40	Per attached quote from Vislink.	\$49,996.80	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$7,260.00	N/A	\$5,445.00	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
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
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
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$2,740.00	N/A	\$2,055.00	N/A
Primary Transmitter THU9-60 EVO 88.8kW	\$2,718,800.00	\$2,194,418.59		\$633,725.58	
RF Monitor	\$22,000.00	\$22,000.00	N/A	N/A	N/A
Other Electrical	\$30,000.00	\$30,000.00	N/A	N/A	N/A

Service: Conduit and wiring material and labor costs required for new transmitter.					
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	
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	N/A	N/A

retuned.
Estimate is
for retuning
interim
transmitter
for posttransition
channel,
which is less
expensive
than
replacing
existing
backup
transmitter.

Sub-total	\$5,493,800.42	\$4,347,000.58	N/A	\$1,195,066.73	N/A
Total for all systems	\$11,083,810.42	\$5,588,127.58	N/A	\$1,672,978.73	N/A

#### Components

Actual Information Description	File Name	
4" Rigid Conduit and Wiring (Cost per foot)	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
	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
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW		

UHF inside RF system including switching	Component Description:  Amount:  Information not provided.	30% Downpayment for WGBX CH43 THU9-EVO 73.5 kW ATSC/67kW OFDM. \$465,054.10
RF Monitoring	Information not provided.	
Engineering and Design	Information not provided.	
Microwave Link to Interim Site	Component Description:  Amount:	WGBX Cabot Street, Duplex NON-Standby STL /TSL STL - 7012.5 MHz and TSL 6912.5MHz. G3 - Antennas, Waveguide and accessories. \$49,996.80
Switchgear - industrial 800 amp	Component Description: Amount:	Switchgear - Industrial 800 amp \$1,815.00
	Component Description: Amount:	Switchgear - Industrial 800 amp \$3,630.00
Other HVAC Service Type: C Size:20 (Other)	Component Description:	20 Ton System \$5,500.00 Ice Shield for HVAC equipment \$1,000.00
	Amount:	\$6,500.00

**Component Description:** 20 Ton System \$11,000.00 Ice Shield for HVAC equipment \$2,000.00 Amount: \$13,000.00 Other -- Building Addition Size: 250.0 **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 **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 Transformer 3 phase/480v -300 KVA **Component Description:** Transformer 3 phase/480v-500KVA \$2,300. Other Transmitter Cost Not Listed: New electrical subpanels \$2,500. Amount: \$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
Service entrance 3 phase /800 amp/208 volt	Component Description:	Service entrance 3 phase/800 amp /208 volt.
	Amount:	\$685.00
	Component Description:	Service entrance 3 phase/800 amp /208 volt
	Amount:	\$1,370.00
RF Monitor	Information not provided.	
Other Electrical Service: Conduit and wiring material and labor costs required for new transmitter.	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 86.8 . 106 kW	Component Description: Amount:	30% Downpayment \$633,725.58
Transformer 3 phase/480v - 300 KVA	Information not provided.	
UHF and VHF - minor banding issues	Information not provided.	
30 kW mask filter	Information not provided.	

### **Cost** Information

#### **Antennas**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TUM-AP-04- 14/56-2-B	\$1,281,330.00	\$285,957.00		\$210,721.80	
Combiner Installation	\$7,000.00	\$7,000.00	N/A	\$5,250.00	N/A
Tower rental	\$57,600.00	\$57,600.00	One-time tower rental during market repack period.	\$43,200.00	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$6,660.00	N/A	\$4,995.00	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
UHF - High Power Top Mount (200-1000 kW), Four Station	\$1,090,000.00	\$71,302.00	N/A	\$53,476.80	N/A

broadband panel antenna, elliptically or circularly polarized					
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$4,995.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$3,000.00	N/A	\$2,250.00	N/A
Primary Antenna TUM-AP-04- 14/56-2-T	\$1,209,030.00	\$240,000.00		\$61,937.50	
Sweep test of existing antenna	\$6,730.00	\$5,000.00	N/A	\$1,250.00	N/A
Combiner Installation	\$11,250.00	\$11,250.00	N/A	\$2,812.50	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.	\$32,500.00	N/A
Elbow complex, broadband,	\$16,850.00	\$10,000.00	N/A	\$2,500.00	N/A

at antenna input, per 7 3/16. feedline (if needed)

New combiner, cost per channel (without antenna)	\$84,200.00	\$83,750.00	Actual cost inclusive of \$8750 installation charge.	\$22,875.00	N/A
Sub-total	\$2,490,360.00	\$525,957.00	N/A	\$272,659.30	N/A
Total for all systems	\$11,083,810.42	\$5,588,127.58	N/A	\$1,672,978.73	N/A

### Components

Actual Information Description	File Name	
Combiner Installation		
	Component Description:	Combiner
		installation
	Amount:	\$1,750.00
	Component Description:	Combiner
		installation
	Amount:	\$3,500.00
Tower rental		
	<b>Component Description:</b>	ATC one-time
		tower rental during
		market repack
		period.
	Amount:	\$14,400.00
	Component Description:	ATC one-time
	2000	tower rental during
		market repack
		period.
	Amount:	\$28,800.00
		<del></del>

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,
	Component Description.	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:	\$33,850.00
	Component Description:	New combiner,
		cost per channel
		(without antenna)
	Amount:	\$67,700.00
UHF - High Power Top		
Mount (200-1000 kW), Four Station broadband panel	<b>Component Description:</b>	Four station
antenna, elliptically or		broadband panel
circularly polarized		antenna,
- January Polarizoa		elliptically or
	Amount	circularly polarized
	Amount:	\$17,825.60
	Component Description:	Four station
	Component Description.	broadband panel
		antenna,
		elliptically or
		circularly polarized.
	Amount:	\$35,651.20
Elbow complex, broadband,		
. ,		

at antenna input, per 7 3/16. feedline (if needed)		
reedime (ii rieeded)	Component Description:	A new line has been added to
		enter the correct
		item purchased.
		This entry may be
		deleted. Elbow
		complex, single
		channel, at
	Amount:	antenna input N/A
	Amount.	N/A
	Component Description:	A new line has
		been added to
		enter the correct
		item purchased.
		This entry may be
		deleted. Elbow complex, single
		channel, at
		antenna input
	Amount:	N/A
Sweep test of existing antenna	Component Description:	Sweep test of
		transmission line
		and antenna.
	Amount:	\$750.00
	Component Description:	Sweep test of
		transmission line
		and antenna.
	Amount:	\$1,500.00
Sweep test of existing		
antenna	Component Description:	Sweep test of
		transmission line
	Amazinti	and antenna.
	Amount:	\$1,250.00
Combiner Installation		

	Component Description: Amount:	Combiner installation. \$2,812.50
JHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	Component Description:  Amount:	\$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
Elbow complex, broadband, at antenna input, per 7 3/16. reedline (if needed)	Component Description:  Amount:	Elbow complex, broadband, at antenna input, per 8 3/16 feedline (if needed). \$2,500.00
New combiner, cost per channel (without antenna)	Component Description:	New combiner, cost per channel (without antenna).

### **Cost** Information

#### **Transmission Line**

Description	Cost Estimate	Cost	Justification	Actual Cost	Justifica
Interim Transmission Line	\$1,830,000.00	\$153,825.00		\$65,925.00	
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.	\$65,925.00	N/A
Rigid Transmission Line - copper, 7 3 /16" broadband	\$832,500.00	\$65,925.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Transmission Line \$84,900 Nitrogen Generator Upgrade \$3,000	\$0.00	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	\$1,860,000.00	\$183,825.00	N/A	\$78,862.50	N/A
Total for all	\$11,083,810.42	\$5,588,127.58	N/A	\$1,672,978.73	N/A

#### Components

Actual Information		
Description	File Name	
Rigid Transmission Line - copper, 8 3/16" broadband	Component Description:  Amount:	Rigid Transmission Line - copper 8 3/16" \$42,450.00 and Nitrogen Generator Upgrade \$1,500.00. \$43,950.00
	Component Description:  Amount:	Rigid Transmission Line - copper 8 3/16" \$21,225.00 and Nitrogen Generator Upgrade \$750.00. \$21,975.00
Rigid Transmission Line - copper, 7 3/16" broadband	Component Description:  Amount:	A new line has been added to enter the correct item purchased. This entry may be deleted. 8 3 /16inch \$21,225.00 Nitrogren Generator Upgrade \$750.00 N/A

	Component Description:  Amount:	A new line has been added to enter the correct item purchased. This entry may be deleted. 8 3 /16inch \$42,450.00 Nitrogren Generator Upgrade \$1500.00 N/A
Transmission line refurbish		
	Component Description:  Amount:	\$12,187.50 8 3/16" broadband \$750.00 Nitrogen Generator Upgrade. \$12,937.50
	Allivant.	Ψ12,007.00

## **Cost Information**

#### **Tower Equipment and Rigging Costs**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Primary Tower GTOWER	\$404,200.00	\$119,900.00		\$13,012.50	
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
Minor tower reinforcement /modifications	\$158,000.00	\$25,000.00	N/A	\$7,562.50	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
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,000.00	N/A	\$2,375.00	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
Sub-total	\$1,012,600.00	\$287,800.00	N/A	\$98,300.20	N/A
Total for all systems	\$11,083,810.42	\$5,588,127.58	N/A	\$1,672,978.73	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 \$13,975.07
	Component Description: Amount:	Complex Tower. \$18,562.50
	Component Description: Amount:	Complex Tower \$27,950.13
Tower Permits	Component Description:	Tower Permit Drawing Package \$1,175.00 Ground & Building A&E Permit Drawing Package \$1,175.00
	Amount:	\$2,350.00

Component Description: Tower Permit

Drawing Package \$2,350.00 Ground & Building A&E Permit Drawing Package \$2,350.00

**Amount:** \$4,700.00

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:** \$475.00

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

**Amount:** \$950.00

Minor tower reinforcement /modifications

Component Description: Major tower

reinforcement /modification \$4,375.00 Construction project management (Tower modification

reinforcements and facilities) \$750.00

**Amount:** \$5,125.00

Component Description: Major tower

reinforcement /modification \$8,750.00 Construction

project

management

(Tower modification

reinforcements and facilities) \$1,500.00

**Amount:** \$10,250.00

## **Cost Information**

#### **Outside Professional Services**

			F.C I		
Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Outside Professional Services	\$139,860.00	\$158,545.00		\$16,855.00	
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	Field study \$80,000 - vendor unknown	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for	\$4,100.00	\$3,000.00	N/A	N/A	N/A

Special
Temporary
Authorization

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	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/A

Project management of	\$15,010.00	\$35,460.00	Primary: 44 hrs	\$9,480.00	N/A
the transition			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		
Sub-total	\$139,860.00	\$158,545.00	N/A	\$16,855.00	N/A
Total for all systems	\$11,083,810.42	\$5,588,127.58	N/A	\$1,672,978.73	N/A

### Components

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

Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description:  Amount:	Perform engineering study for new channel assignment and antenna development (Cost per customer) \$1,250.00
	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
Address transition timing and coordination issues w/ other stations and wireless		

Component Description: Address transition

timing and coordination issues with other stations and wireless (Cost per

customer)

**Amount:** \$625.00

Component Description: Address transition

timing and coordination issues with other stations and wireless.

**Amount:** \$500.00

Component Description: Address transition

timing and coordination issues with other stations and

wireless (Cost per

customer)

**Amount:** \$1,250.00

Prepare and or review reimbursement form

Information not provided.

Project management of the transition

Component Description: Project

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

**Amount:** \$2,370.00

**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

# **Cost Information**

#### **Other Expenses**

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	
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
RF System Commission	\$8,000.00	\$8,000.00	Includes primary and interim sites per ATC quotes.	\$3,250.00	N/A
MVPD Notification of Channel Change	\$8,000.00	\$8,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$30,000.00	\$30,000.00	N/A	N/A	N/A
Equipment Storage	\$5,000.00	\$5,000.00	N/A	\$2,700.00	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	\$335.00	\$0.00	N/A	N/A	N/A

Total for all	\$11,083,810.42	\$5,588,127.58	N/A	\$1,672,978.73	N/A
Sub-total	\$87,190.00	\$85,000.00	N/A	\$11,235.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Local Zoning	\$1,240.00	\$1,240.00	Public hearing for primary and interim sites per ATC quotes. ATC Public Hearing \$400	\$1,160.00	N/A
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.	\$3,625.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$0.00	N/A	N/A	N/A

Description	File Name	
Pre planning survey and engineering	Information not provided.	
Site coordination meetings		
	Component Description:	Site Coordination
	Amount:	Meeting. \$500.00
DE Cratam Commission		
RF System Commission	Component Description	DE System Too
	Component Description: Amount:	RF System Tes \$625.00
	Component Description:	RF System Tes
	Amount:	\$1,375.00
	Component Description:	RF System Tes
	Amount:	\$1,250.00
MVPD Notification of Channel Change	Information not provided.	
Develop and air	Information not provided.	
announcement of upcoming channel change		
Equipment Storage		
	Component Description:	Site Security Company during
		construction for
		theft prevention and vandalism.
	Amount:	\$900.00
	Component Bassaciation	0:4- 0- ''
	Component Description:	Site Security  Company during
		construction for
		theft prevention and vandalism.
	Amount:	\$1,800.00

FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
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.
	Amount:	\$1,375.00
	Component Description:	Equipment Delivery and Handling Charges (Cost per customer)
	Amount:	\$1,500.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Non-zoning permits	Information not provided.	
Local Zoning	Component Description:	Obtain building permits from local
	Amount:	zoning authorities. \$187.50 Public Hearing. \$100 \$287.50

**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 \$575.00 Amount: **DTV Medical Facility** Information not provided. Notification

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$11,083,810.42	\$5,588,127.58	\$1,672,978.73

Reimbursem	entestiatus	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

01/02/2019

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

01/02/2019

#### **Attachments**