

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

65684 Service: DTV Channel: 33 (UHF) Facility Call **WCVB-TV** Sign:

File 0000026707

Number:

ID:

FRN: 0001587583 Date 02/19

> Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Hearst Stations Inc. Doing Business As: Hearst Stations Inc.	Corporation 150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	shartzell@brookspierce. com	Corporation

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
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The Preparer is same as the reimbursement contact.

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	see attached transition plan document

Transmitters

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

Auxiliary Transmitter

Existing 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	Harris
Manufacturer and Type	Model	Maxiva UAX- 2000AT
	Year	2013
	Туре	Solid State

Solid State Cooling	Air Cooled
Solid State Power capacity	2.5 kW

Auxiliary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	3 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 Information not provided.

Other Transmitter Cost Not Listed

Existing 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	
Manufacturer and Type	Model	Sigma CD2200P2
	Year	1998
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 kW

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-90
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	56.4 kW
	Justification for New Transmitter	Existing IOT transmitter cannot be converted to post-transition channel, see GatesAir EOL and HTV IOT to Solid-State Justification statements. An IOT replacement is more expensive than proposed SS transmitter. See attached Comark IOT Transmitter quote.

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

Other Transmitter Cost Not Listed

Name	Description
Sales Tax	transmitter sales tax
Transmitter de-install	remove old transmitter
Shipping	transmitter shipping
Electrical Accessories	manufacturer required surge protection
Additional RF components	Additional RF components required for transmitter operation and integration into current RF environment per GatesAir quote.

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-90
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	56.4 kW
	Justification for New Transmitter	transmitter needed to make the transition to post- transition channel

Interim 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	transmitter installation electrical service
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Heating and Cooling
	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?	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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description
Additional RF components	Additional RF components required for transmitter operation and integration into current RF environment per GatesAir quote.
Shipping	transmitter shipping
Sales Tax	transmitter sales tax
Electrical Accessories	manufacturer required surge protection
Studio-to-Transmitter Link	STL equipment to support interim transmitter

Antennas

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

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	backup to main antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Moun
	Antenna position in stack	Not in Stac
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A

Lower Limit	N/A
Upper Limit	N/A
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	200.0 kW
Manufacturer	Dielectric
Model	TLP-16M (C)
Year	2013

Auxiliary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	No

Auxiliary Antenna

Other Antenna Costs

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

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

Primary Antenna

Existing 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 Corp.
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	4
	Number of Panels	60
	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- 5/60
Year	1999

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

Facility ID	Call Sign
25456	WBZ-TV
72098	WGBX-TV
73982	WSBK-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?	No
	Ownership	Leased
	Owner	American Tower Inc.
	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	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	4
	Number of Panels/Bays	14
	Lower Limit	480.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	80.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	907.0 kW
	Manufacturer	

Model	TUM-AP- O4-14/56H- 2-T
Year	2018
Justification for New Antenna	no justification provided by American Tower

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	8 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?	
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	WCVB portion of combiner installation cost	

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Ownership	Leased
	Owner	American Tower Inc
	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 Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	5
	Number of Panels/Bays	14
	Lower Limit	480.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	85.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	907.0 kW
	Manufacturer	
	Model	TUM-AP- O4-14/56H- 2-T

Year	2018
Justification for New Antenna	required for move to post- transition channel

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	5
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	Feed Line Size	7 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	
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			
34			

Interim Antenna

Other Antenna Cost Not Listed

Name	Description	
Combiner installation	WCVB portion of combiner installation cost	

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

Primary Transmission

Existing Transmission 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 Corp.
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Туре	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	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
72098	WGBX-TV
25456	WBZ-TV
73982	WSBK-TV

Primary

Other Transmission Line Expenses Not Listed

Transmission	n <mark>Line</mark>	Description
	Line Refurbish	This cost is to refurbish two (2) existing 8-3 /16" transmission lines to be utilized by both the new top mount antenna & side mounted antennas per ATC documentation.

Auxiliary Transmission

Existing Transmission Line

n Settion	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary /Backup
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	Myat
Line Manufacturer and Type	Туре	Flexible Air
	Diameter	3 inches

Other Diameter	N/A
Segment Length	N/A
Other Segment Length	N/A
Number of parallel runs	1
Length	616 feet per run

Other Transmission Line Expenses Not Listed

Auxiliary Other Transmission
Transmission to inetion not provided.

New Transmission Line

Interim			
Transmissio	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Lease New
		Туре	Rigid
		Diameter	7 3/16 inches
	Segment Length	Broadband	
	Other Segment Length		
		Number of parallel runs	2
		Length	1250 feet per run
		Justification for New Transmission Line	required for interim antenna

Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

Interim

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

Existing Tower

Section	Question	Response
Existing Tower	Type of change	Modify Existing
Description	Tower Use	Auxiliary (Backup)
	Description of Use	Interim
	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	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1004233
Coordinates (NAD83 (Latitude (NAD83)	42° 18' 10.7" N-
North American Datum of 1983))	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
9639	WODS	FM
1901	WBZ-FM	FM
23439	WBOS	FM
26897	WBMX	FM
6463	WFXT	DTV

Other Types of Users

Users	
W243DC	

Auxiliary 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

Auxiliary Tower

Tower Rigging Costs

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 Permit Drawing Package	The generation of a construction drawing package per attached ATC documentation.
Ground and Building A-E Permit Drawing Package	The generation of a construction drawing package per attached ATC documentation.
Tower Modification PM	Tower modification and RF installation project management per attached ATC documentation

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	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Unknown
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
73982	WSBK-TV	DTV
72098	WGBX-TV	DTV
72099	WGBH-TV	DTV
18783	WYDN	DTV
25456	WBZ-TV	DTV
10542	WKLB-FM	FM
68241	WBUR-FM	FM

Other Types of Users

Users	
WBTS-LD	

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
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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 Drawing Package	Tower Permit Drawing Package per attached ATC documentation
Ground and Building A-E Permit Drawing Package	The generation of a construction drawing package for one (1) broadcasters /customers.
Tower Modification PM	Modification project management and RF installation project management per attached ATC documentation

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	127
	Explanation	ATC project management fee. Scheduling and management of timelines and schedules occurring during repack. See attached ATC documentation.
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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes

Services

Services	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	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	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional \$

Other Professional Services Expenses Not Listed

Services Costs Des	cription
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RF System Test

	Testing of the combiner to ensure all frequencies are tuned for optimal patterns per attached ATC documentation.
Transmitter Site Survey	Transmitter planning survey & transmitter building drawings
Site Coordination Meeting	Site coordination meetings with all broadcasters, contractors and vendors involved with the site deliveries and construction. This cost is for travel and logistics expenses accrued per attached ATC documentation.

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	No
	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)?	No
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
ATC one-time tower rental	ATC have 5 repack station and 2 phases on two different towers in the Boston DMA. See ATC documentation.
Security	Site security for installation and storage of Transmission line and materials for 30 days X 12 hours. These materials are a high risk of theft due to the material makeup such as copper, brass and aluminum per ATC documentation.
Testing for Asbestos and Lead Paint	Asbestos testing, removal and abatement for walls which could contain lead paint and /or the flooring may contain asbestos, because of the age of the facility and the era when the original construction took place per ATC documentation

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 ULXTE-90	\$2,344,396.00	\$1,816,806.00		\$521,525.73	
Studio-to- Transmitter Link	\$109,697.00	\$109,697.00	STL required to support interim transmitter. See attached quote.	N/A	N/A
Electrical Accessories	\$1,943.00	\$1,943.00	manufacturer required surge protection	N/A	N/A
Sales Tax	\$91,271.00	\$91,271.00	transmitter sales tax per attached GatesAir quote	N/A	N/A
Shipping	\$13,500.00	\$13,500.00	transmitter shipping per attached GatesAir quote	N/A	N/A
Additional RF components	\$67,685.00	\$67,685.00	Additional RF components required for transmitter operation and integration into current RF environment per GatesAir quote	N/A	N/A

			section C.		
			RF		
			Accessories.		
20 Ton system	\$115,500.00	\$22,000.00	N/A	N/A	N/A
Other Electrical Service: transmitter installation electrical service	\$120,000.00	\$120,000.00	interim transmitter installation electrical service per attached quote	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$11,488.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,379,222.00	GatesAir quote sections A, B & E. This is the transmitter, mask filter, installation and proof per the FCC "transmitter" definition. See attached Transmitter TPO Justification.	\$521,525.73	N/A
Primary Transmitter ULXTE-90	\$2,091,197.00	\$1,657,107.00		\$525,778.66	
Additional RF components	\$85,256.00	\$85,256.00	Additional RF components required for transmitter operation and integration into current RF	N/A	N/A

			environment per GatesAir quote section C. RF Accessories.		
Electrical Accessories	\$1,943.00	\$1,943.00	manufacturer required surge protection	N/A	N/A
Shipping	\$13,500.00	\$13,500.00	transmitter shipping per attached GatesAir quote	N/A	N/A
Transmitter de-install	\$24,780.00	\$24,780.00	remove existing transmitter	N/A	N/A
Sales Tax	\$93,918.00	\$93,918.00	transmitter sales tax per attached GatesAir quote	N/A	N/A
Other Electrical Service: transmitter installation electrical service	\$47,000.00	\$47,000.00	transmitter installation electrical service per attached quote	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$11,488.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,379,222.00	GatesAir quote sections A, B & E. This is the transmitter, mask filter, installation and proof per the FCC "transmitter"	\$525,778.66	N/A

definition.
See
attached
Transmitter
TPO
Justification.

Auxiliary Transmitter Maxiva UAX- 2000AT	\$109,355.00	\$0.00		\$0.00	
3 kW mask filter	\$4,155.00	\$0.00	N/A	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$0.00	N/A	N/A	N/A
Sub-total	\$4,544,948.00	\$3,473,913.00	N/A	\$1,047,304.39	N/A
Total for all systems	\$9,396,242.00	\$4,765,541.00	N/A	\$1,050,341.89	N/A

Components

Actual Information Description	File Name
Studio-to-Transmitter Link	Information not provided.
Electrical Accessories	Information not provided.
Sales Tax	Information not provided.
Shipping	Information not provided.
Additional RF components	Information not provided.
20 Ton system	Information not provided.
Other Electrical Service: transmitter installation electrical service	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	

	Component Description: Amount:	WCVB GatesAir Interim Transmitter 2nd deposit \$338,551.86
	Component Description: Amount:	WCVB GatesAir Interim transmitter 1st deposit \$182,973.87
Additional RF components	Information not provided.	
Electrical Accessories	Information not provided.	
Shipping	Information not provided.	
Transmitter de-install	Information not provided.	
Sales Tax	Information not provided.	
Other Electrical Service: transmitter installation electrical service	Information not provided.	
Transformer 3 phase/480v - 300 KVA	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	WCVB GatesAir Main transmitter 1st deposit \$187,226.80
	Component Description:	WCVB GatesAir Main transmitter 2nd deposit
	Amount:	\$338,551.86
3 kW mask filter	Information not provided.	
UHF and VHF - minor banding issues	Information not provided.	

Antennas

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TUM-AP- O4-14/56H- 2-T	\$198,003.00	\$167,423.00		\$0.00	
Combiner installation	\$7,000.00	\$7,000.00	WCVB portion of combiner installation. See ATC Documentation.	N/A	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$7,200.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$67,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$3,000.00	N/A	N/A	N/A
UHF - High Power Top Mount Five Station broadband panel antenna elliptically	\$83,223.00	\$83,223.00	WCVB portion of interim antenna cost. See ATC Documentation.	N/A	N/A

or circularly polarized					
Primary Antenna TUM-AP- O4-14/56H- 2-T	\$1,208,630.00	\$246,363.00		\$0.00	
Combiner Installation	\$8,750.00	\$8,750.00	WCVB portion of combiner installation. See ATC Documentation.	N/A	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$9,000.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$75,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$5,000.00	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$148,613.00	WCVB portion of antenna cost. See ATC Documentation.	N/A	N/A
Auxiliary Antenna	\$189,500.00	\$0.00		\$0.00	

TLP-16M

(C)

UHF -	\$189,500.00	\$0.00	N/A	N/A	N/A
Lower					
Power					
Side					
Mount,					
One					
station -					
200-500					
kW,					
horizontally					
polarized					
Sub-total	\$1,596,133.00	\$413,786.00	N/A	\$0.00	N/A
	\$9,396,242.00	\$4,765,541.00	N/A	\$1,050,341.89	N/A
Total for	\$9,390,242.00	$\psi + , i \cup 0, 0 + 1.00$. 4, , .	Ψ1,000,0-1.00	1 4/ / 1
Total for all	φ9,390,242.00	ψ4,7 00,041.00		Ψ1,000,041.00	14/1

Components

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
Interim Transmission Line	\$832,500.00	\$64,375.00		\$0.00	
Rigid Transmission Line - copper, 7 3 /16" broadband	\$832,500.00	\$64,375.00	WCVB portion of transmission line cost. See ATC Documentation.	N/A	N/A
Primary Transmission Line	\$30,000.00	\$30,000.00		\$0.00	
Line Refurbish	\$30,000.00	\$30,000.00	WCVB portion of transmission line refurbishing. See ATC Documentation.	N/A	N/A
Auxiliary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$862,500.00	\$94,375.00	N/A	\$0.00	N/A
Total for all systems	\$9,396,242.00	\$4,765,541.00	N/A	\$1,050,341.89	N/A

Components

Tower Equipment and Rigging Costs

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cos
Primary Tower GTOWER	\$409,700.00	\$111,488.00		\$0.00	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$11,088.00	See ATC Documentation.	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$60,500.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$25,000.00	N/A	N/A	N/A
Ground and Building A-E Permit Drawing Package	\$4,700.00	\$4,700.00	See ATC Documentation.	N/A	N/A
Tower Permit Drawing Package	\$4,700.00	\$4,700.00	See ATC Documentation.	N/A	N/A
Tower Modification PM	\$5,500.00	\$5,500.00	See ATC Documentation.	N/A	N/A
Auxiliary Tower GTOWER	\$617,700.00	\$82,835.00		\$0.00	
Tower	\$3,000.00	\$3,000.00	See ATC	N/A	N/A

Modification PM			Documentation.		
Ground and Building A-E Permit Drawing Package	\$4,700.00	\$4,700.00	See ATC Documentation.	N/A	N/A
Tower Permit Drawing Package	\$4,700.00	\$4,700.00	See ATC Documentation.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$56,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$10,000.00	N/A	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$4,435.00	N/A	N/A	N/A
Sub-total	\$1,027,400.00	\$194,323.00	N/A	\$0.00	N/A
Total for all systems	\$9,396,242.00	\$4,765,541.00	N/A	\$1,050,341.89	N/A

Components

Outside Professional Services

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Outside Professional Services	\$93,241.00	\$89,659.00		\$3,037.50	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,937.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,100.00	N/A
Site Coordination Meeting	\$1,760.00	\$1,760.00	See ATC Documentation.	N/A	N/A
Transmitter Site Survey	\$20,600.00	\$20,600.00	Transmitter planning survey & transmitter building drawings per attached quote	N/A	N/A
RF System Test	\$8,000.00	\$8,000.00	See ATC Documentation. \$5,500 & \$2,500 for main and aux sites respectively.	N/A	N/A
Attorney Fees - Prepare and File request for Special	\$3,680.00	\$3,500.00	N/A	N/A	N/A

Temporary
Authorization

	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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
	Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
	RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100,	\$1,580.00	\$1,499.00	N/A	N/A	N/A

License to
Cover
Application

Total for all systems	\$9,396,242.00	\$4,765,541.00	N/A	\$1,050,341.89	N/A
Project management of the transition Sub-total	\$20,066.00 \$93,241.00	\$19,050.00 \$89,659.00	N/A N/A	N/A \$3,037.50	N/A N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	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	\$0.00	N/A

Components

Actual Information		
Description	File Name	

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepare engineering section of FCC Form 2100, Construction Permit Application \$1,937.50
Perform engineering study for new channel assignment and antenna development	Component Description:	Engineering study for new channel assignment
	Amount:	\$550.00
	Component Description:	engineering study for "90 day" construction permit. See
	Amount:	invoice for details. \$550.00
Site Coordination Meeting	Information not provided.	
Transmitter Site Survey	Information not provided.	
RF System Test	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main),	Information not provided.	

Construction Permit Application	
Prepare request for Special Temporary Authorization	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	Information not provided.
Project management of the transition	Information not provided.

Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co
Other Expenses	\$91,090.00	\$90,485.00		\$0.00	
Testing for Asbestos and Lead Paint	\$1,800.00	\$1,800.00	See ATC Documentation.	N/A	N/A
Security	\$3,600.00	\$3,600.00	Site security for installation and storage of Transmission line and materials for 30 days X 12 hours. These materials are a high risk of theft due to the material makeup such as copper, brass and aluminum. See ATC documentation.	N/A	N/A
ATC one-time tower rental	\$57,600.00	\$57,600.00	ATC one-time tower rental during market repack period. See ATC documentation.	N/A	N/A
MVPD Notification of Channel Change	\$2,500.00	\$2,500.00	Attorney assistance in coordinating MVPD notification	N/A	N/A
Develop and air announcement of upcoming	\$2,500.00	\$2,500.00	Attorney review to ensure FCC compliance	N/A	N/A

channel change					
Equipment Delivery and Handling Charges	\$8,500.00	\$8,500.00	See ATC Documentation. \$5,500 and \$3,000 for main and aux sites respectively.	N/A	N/A
Local Zoning	\$1,400.00	\$1,400.00	See ATC Documentation. \$750 per site.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
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	\$1,070.00	N/A	N/A	N/A
Sub-total	\$91,090.00	\$90,485.00	N/A	\$0.00	N/A
Total for all systems	\$9,396,242.00	\$4,765,541.00	N/A	\$1,050,341.89	N/A

Components

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$9,396,242.00	\$4,765,541.00	\$1,050,341.89

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. John Drain Hearst Television SVP Chief Financial Officer 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. Douglas
Durkee
Hearst
Television
Manager of
Spectrum
Repack

02/19/2018

Attachments