



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **31870** | Service: **DTV** | Call **KYAZ** | Channel: **25 (UHF)** |
ID: | Sign:
File **0000028371**
Number:
FRN: **0026907345** | Date **05/10**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
HC2 STATION GROUP, INC.	RENEE ILHARDT 450 PARK AVENUE NEW YORK, NY 10022 United States	+1 (212) 339-5835	RILHARDT@HC2BROADCASTING.COM	Corporation

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
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	Site owner will install an interim antenna for shared use by two stations currently sharing an antenna to continue operation while the shared Main antenna atop the tower is replaced and configured to support three stations.

Transmitters

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

**Primary
Transmitter**

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 and Type	Manufacturer	
	Model	HP60TDP
	Year	2008
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 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	THU9EVO-36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	The existing IOT transmitter is no longer supported by the manufacturer and cannot be retuned to the new channel. A solid state transmitter costs less than the only available IOT transmitter.

Primary Transmitter

Other Transmitter Costs

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

	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	1100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	1500.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filter 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
Route new main transmitter to existing Mask Filter	Route new main transmitter to existing Mask Filter
Ice shield for HVAC equipment.	Ice protection for new outdoor HVAC equipment outside the combiner room. The total estimated area is 300 sq. ft.
Other Costs	Other Costs

Electrical sub panels

New HVAC electrical subpanels for new AC units required for the repack combiner area fed from the existing 480 VAC main panel. This equipment is required to provide existing power to new HVAC units.

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Other
	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	Cavity Slot
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	RD32A-4255EDS65
Year	2008

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

Facility ID	Call Sign
28324	KTBU

**Primary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	645.0 kW
	Manufacturer	
	Model	PEPL42C
Year	2018	

Justification for New Antenna	Current shared antenna will not work for the new assigned channels. New 14 bay Broadband antenna, with 56 elements total, required to accommodate the new repack frequencies. This antenna will be a four-sided assembly mast.
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Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	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
33
21
25

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Transmission line run to shared Combiner room	Transmission line run to shared Combiner room

**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 Corporation
	Is antenna shared?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	
Model	TFU-24WB- C160	

Year	2018
Justification for New Antenna	The main antenna on top needs to be replaced; due to the complexity of the work, an interim antenna will need to be installed to keep the station on the air.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	7 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
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
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**Interim
Antenna**

Other Antenna Cost Not Listed

Name	Description
Combiner Installation	Combiner installation cost for three 3 or 6 modules, 2 per channel constant impedance waveguide modules and three directional filter modules, for 3 repacked frequency transmitters.

**Transmission
Line**

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

**Primary
Transmission
Line** **Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	KTBU-TV
	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	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	20 feet per run

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

Facility ID	Call Sign
28324	KTBU

**Primary
Transmission
Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	2100 feet per run
	Justification for New Transmission Line	New broadband transmission line is required to run multiple shared channels for a master antenna.

**Primary
Transmission
Line**

Other Transmission Line Expenses Not Listed

Name	Description
Interim Antenna Connection to New Transmitter	Temporary connection to interim antenna with new transmitter is required to remove current equipment and make space for second transmitter on shared space.

Tower Equipment And Rigging Costs

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

Primary Tower

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?	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?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1059622
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	29° 33' 45.2" N-
	Longitude (NAD83)	095° 30' 35.9" W-
	Overall Structure Height	1974.06 feet
	Support Structure Height	1844.14 feet
	Ground Elevation Above Mean Sea Level (AMSL)	74.15 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC.
Date Constructed	08/30/2000

**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
51569	KTXH	DTV
28324	KTBU	DTV
9625	KQBT	FM
11971	KMJQ	FM
22204	KRIV	DTV
13200	KUVM-CD	DTV
69531	KZJL	DTV
11969	KBXX	FM
53847	KXLN-DT	DTV

Other Types of Users

Users
FM translator
LPTV
Wireless

Primary 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:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Construction project management	17.5 hours on modification project management and 42.5 hours for RF installation project management.
Ground, Building A and E Permit Drawing Package.	Basic drawing package for municipality permitting.
Tower permit drawing package	Basic drawing package for municipality permitting.

Outside Professional Services Costs

Section	Question	Response
<p>Outside Project Management Services</p>	<p>Do you require outside project management services?</p>	<p>Yes</p>
	<p>Number of Hours</p>	<p>245</p>
	<p>Explanation</p>	<p>Project management fee for the transition of broadcasters. Scheduling and management of the timelines and schedules occurring during the repack. Overseeing all work carried out in KYAZ space in the transmitter building.</p>
<p>Outside RF consulting Engineering Services</p>	<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC Construction Permit Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>Yes</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC License to Cover Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>Yes</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare request for Special Temporary Authority</p>	<p>Yes</p>
	<p>Quantity</p>	<p>1</p>

	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	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	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	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	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A

Justification

N/A

**Outside
Professional
Services
Costs**

Other Professional Services Expenses Not Listed

Name	Description
Migratory Bird Assessment Permitting, if needed	Migratory Bird Assessment Permitting, if needed.
RF System test	Testing of the combiner to ensure that each channel in use by a station is tuned for optimal performance.
Site Coordination Meeting	Site coordination meetings with all broadcasters, contractors and vendors involved with site deliveries and construction. This cost is for travel and logistics expenses accrued.
Other Costs	Other Costs

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
ATC one time tower rental during market repack period.	ATC has 5 customers at the Missouri City site being repacked, with 3 repacked broadcasters on top of the candelabra. The interim Main side mount antenna will allow broadcasters to minimize their OTA disruption while maintaining their coverage contours.
Other Costs	Other Costs
Access Road Upgrades	The access road to the site will undergo many stresses from delivery of heavy equipment and reconfiguration of utilities at the site. Initial upgrades will reduce the need for repairs and maintain traffic flow.
Compound Fencing	Facilitating construction operations in the compound area will require removal, reinstallation, and sometimes replacement of fencing to provide necessary access to heavy machinery.
Grading	Due to the very soft soil at the site and the need for movement of heavy equipment, grading is required to avoid having the equipment sink into the soil
Site Security	Site security for installation and storage of Transmission line and materials for 12 hours per day for 30 days. The materials are at a high risk of theft due to the material makeup, such as copper, brass and aluminum.

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
Primary Transmitter THU9EVO-36	\$2,947,311.40	\$1,041,379.00		\$931,447.50	
Electrical sub panels	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Other Costs	<i>\$9,250.00</i>	\$9,250.00	See quote from American Towers for Preparing Form 854, total of line 10 and 11.	\$2,312.50	N/A
Ice shield for HVAC equipment.	<i>\$8,000.00</i>	\$8,000.00	N/A	N/A	N/A
Route new main transmitter to existing Mask Filter	<i>\$18,811.40</i>	\$18,811.40	N/A	\$18,811.40	N/A
Other -- Building Addition Size: 1500.0	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
10 Ton system	\$38,900.00	\$24,667.00	See quote from American Towers for Preparing Form 854, line 8.	\$6,166.75	N/A

2" Rigid Conduit and Wiring (Cost per foot)	\$28,600.00	\$6,250.00	See quote from American Towers for Preparing Form 854, line 7.	\$1,562.50	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$859,587.34	Updated estimated cost.	\$859,587.34	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$45,375.00	See quote from American Towers for Preparing Form 854, total of line 6 on ATC quote and Marsand invoice cost.	\$38,568.75	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$20,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$4,438.26	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$4,438.26	N/A
Sub-total	\$2,947,311.40	\$1,041,379.00	N/A	\$931,447.50	N/A
Total for all systems	\$6,273,929.66	\$2,505,697.26	N/A	\$1,225,539.46	N/A

Components

Actual Information Description	File Name
Electrical sub panels	Information not provided.
Other Costs	<p>Component Description: Transmitter related cost, line 10 and 11 on quote. #460208938</p> <p>Amount: \$4,625.00</p> <p>Component Description: Transmitter related cost, line 10 and 11 on quote. #460203509</p> <p>Amount: \$2,312.50</p>
Ice shield for HVAC equipment.	Information not provided.
Route new main transmitter to existing Mask Filter	<p>Component Description: Transmitter related cost. #6972</p> <p>Amount: \$18,811.40</p>
Other -- Building Addition Size: 1500.0	Information not provided.
10 Ton system	<p>Component Description: Transmitter related cost, line 8 on quote. #460208938</p> <p>Amount: \$12,333.00</p> <p>Component Description: Transmitter related cost, line 8 on quote. #460203509</p> <p>Amount: \$6,166.75</p>

2" Rigid Conduit and Wiring
(Cost per foot)

Component Description:

Transmitter related
cost, line 7 on
quote. #460208938

Amount:

\$3,125.00

Component Description:

Transmitter related
cost, line 7 on
quote. #460203509

Amount:

\$1,562.50

UHF - Liquid Cooled Solid
State Transmitter 52 - 61
kW

Component Description: Transmitter related
cost. #022819-
HOU2
Amount: \$680.00

Component Description: 25% transmitter
cost, upgrade
excluded.
#9500085909
Amount: \$196,837.50

Component Description: 75% transmitter
cost plus tax,
upgrade cost
excluded.
#9500094092
Amount: \$655,209.84

Component Description: Transmitter related
cost. #9500097403
Amount: \$5,460.00

Component Description: Transmitter related
cost. #013119-
HOU1
Amount: \$1,400.00

Component Description: Transmitter related
cost. #9500092933
Amount: \$4,438.26

Switchgear - industrial 800 amp	<p>Component Description: Transmitter related cost, line 6 on quote. #460208938</p> <p>Amount: \$4,537.50</p>
<p>Component Description: Transmitter related cost, line 6 on quote. #460203509</p> <p>Amount: \$2,268.75</p>	
<p>Component Description: Transmitter related cost. #6972</p> <p>Amount: \$36,300.00</p>	
Transformer 3 phase/480v - 150 KVA	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<p>Component Description: 25% downpayment, upgrade amount excluded. #9500085909</p> <p>Amount: \$196,837.50</p> <p>Component Description: Transmitter related cost. #9500092933</p> <p>Amount: \$4,438.26</p> <p>Component Description: 75% balance of the project. #9500094092</p> <p>Amount: \$655,209.84</p>

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-24WB-C160	\$181,663.00	\$176,333.00		\$31,650.00	
Combiner Installation	<i>\$8,333.00</i>	\$8,333.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	<i>\$126,600.00</i>	\$126,600.00	See quote from American Towers for Preparing Form 854, total of line 1 and 5.	\$31,650.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 7 3 /16. feedline (if needed)	\$16,850.00	\$15,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$20,000.00	N/A	N/A	N/A
Primary Antenna PEPL42C	\$420,823.02	\$266,663.02		\$84,323.02	

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$149,920.00	See quote from American Towers for Preparing Form 854, line 12.	\$37,480.00	N/A
Sweep test of existing antenna	\$6,730.00	\$11,667.00	See quote from American Towers for Preparing Form 854, total of line 14 and 33.	\$2,916.75	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$62,333.00	See quote from American Towers for Preparing Form 854, total of line 13 and 16.	\$15,583.25	N/A
Elbow complex, broadband, at antenna input, per 7 3 /16. feedline (if needed)	\$16,850.00	\$19,200.00	See quote from American Towers for Preparing Form 854, total of line 2 and 15.	\$4,800.00	N/A
Transmission line run to shared Combiner room	\$23,543.02	\$23,543.02	N/A	\$23,543.02	N/A
Sub-total	\$602,486.02	\$442,996.02	N/A	\$115,973.02	N/A
Total for all systems	\$6,273,929.66	\$2,505,697.26	N/A	\$1,225,539.46	N/A

Components

Actual Information	
Description	File Name
Combiner Installation	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	<p>Component Description: Antenna related cost, line 1 & 5 on the quote. #460208938</p> <p>Amount: \$63,300.00</p> <p>Component Description: Antenna related cost, line item 1 & 5 on quote. #460203509</p> <p>Amount: \$31,650.00</p>
Sweep test of existing antenna	Information not provided.
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p>Component Description: Antenna related cost, line 12 on quote. #460208938</p> <p>Amount: \$74,960.00</p> <p>Component Description: Antenna related cost, line 12 on quote. #460203509</p> <p>Amount: \$37,480.00</p>

<p>Sweep test of existing antenna</p>	<p>Component Description: Antenna related cost, line 14 and 33 on quote. #460208938</p> <p>Amount: \$5,833.00</p> <p>Component Description: Antenna related cost, line 14 and 33 on quote. #460203509</p> <p>Amount: \$2,916.75</p>
<p>New combiner, cost per channel (without antenna)</p>	<p>Component Description: Antenna related cost, line 13 and 16 on quote. #460208938</p> <p>Amount: \$31,166.50</p> <p>Component Description: Antenna related cost, line 13 and 16 on quote. #460203509</p> <p>Amount: \$15,583.25</p>
<p>Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)</p>	<p>Component Description: Antenna related cost, line 2 and 15 on quote. #460208938</p> <p>Amount: \$9,600.00</p> <p>Component Description: Antenna related cost, line 2 and 15 on quote. #460203509</p> <p>Amount: \$4,800.00</p>

Transmission line run to shared Combiner room	<p>Component Description:</p> <p>Amount:</p>	Antenna related cost. #6972 \$23,543.02
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Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$1,466,951.24	\$458,351.24		\$71,400.00	
Rigid Transmission Line - copper, 7 3 /16" broadband	\$1,398,600.00	\$390,000.00	See quote from American Towers for Preparing Form 854, line 17.	\$71,400.00	N/A
Interim Antenna Connection to New Transmitter	<i>\$68,351.24</i>	\$68,351.24	N/A	N/A	N/A
Sub-total	\$1,466,951.24	\$458,351.24	N/A	\$71,400.00	N/A
Total for all systems	\$6,273,929.66	\$2,505,697.26	N/A	\$1,225,539.46	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 7 3/16" broadband	<p>Component Description: Transmission line related cost, line 17 on quote. #460208938</p> <p>Amount: \$142,800.00</p> <p>Component Description: Transmission line related cost, line 17 on quote. #460203509</p> <p>Amount: \$71,400.00</p>
Interim Antenna Connection to New Transmitter	Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	\$878,900.00	\$226,350.00		\$50,272.00	
Major tower reinforcement /modifications	\$421,000.00	\$90,000.00	See quote from American Towers for Preparing Form 854, total of line 3 and 20.	\$22,500.00	N/A
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,450.00	See quote from American Towers for Preparing Form 854, total of line 18 and 19.	\$2,772.00	N/A
Tower permit drawing package	<i>\$4,700.00</i>	\$4,700.00	N/A	N/A	N/A
Construction project management	<i>\$7,500.00</i>	\$7,500.00	N/A	N/A	N/A
Ground, Building A and E Permit Drawing Package.	<i>\$4,700.00</i>	\$4,700.00	N/A	N/A	N/A

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$100,000.00	See quote from American Towers for Preparing Form 854, total of line 4 and 21.	\$25,000.00	N/A
Sub-total	\$878,900.00	\$226,350.00	N/A	\$50,272.00	N/A
Total for all systems	\$6,273,929.66	\$2,505,697.26	N/A	\$1,225,539.46	N/A

Components

Actual Information		
Description	File Name	
Major tower reinforcement /modifications	Component Description:	Tower related cost, line 3 and 20 on quote. #460208938
	Amount:	\$45,000.00
	Component Description:	Tower related cost, line 3 and 20 on quote. #460203509
	Amount:	\$22,500.00

<p>Structural engineering tower load study for a documented tower with candelabra</p>	<p>Component Description: Tower related cost, line 19 on quote. #460208938</p> <p>Amount: \$5,544.00</p> <p>Component Description: Tower related cost, line 19 on quote. #460203509</p> <p>Amount: \$2,772.00</p>
<p>Tower permit drawing package</p>	<p>Information not provided.</p>
<p>Construction project management</p>	<p>Information not provided.</p>
<p>Ground, Building A and E Permit Drawing Package.</p>	<p>Information not provided.</p>
<p>Complex Tower (includes, for example, those with candelabras and/or stacked antennas)</p>	<p>Component Description: Tower related cost, line 4 and 21 on quote. #460208938</p> <p>Amount: \$50,000.00</p> <p>Component Description: Tower related cost, line 4 and 21 on quote. #460203509</p> <p>Amount: \$25,000.00</p>

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$216,293.00	\$181,988.00		\$13,993.44	
Other Costs	<i>\$6,000.00</i>	\$6,000.00	See quote from American Towers for Preparing Form 854, line 37.	\$1,500.00	N/A
Site Coordination Meeting	<i>\$1,250.00</i>	\$1,250.00	See quote from American Towers for Preparing Form 854, line 31.	\$312.50	N/A
RF System test	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Migratory Bird Assessment Permitting, if needed	<i>\$438.00</i>	\$438.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	See quote from American Towers for Preparing Form 854, line 30.	\$937.50	N/A

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$200.00	See quote from American Towers for Preparing Form 854, line 29.	\$41.75	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$5,000.00	N/A	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$1,350.00	See quote from American Towers for Preparing Form 854, line 28.	\$337.50	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	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

Project management of the transition	\$38,710.00	\$24,500.00	N/A	\$8,989.19	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	See quote from American Towers for Preparing Form 854, line 26.	\$625.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	See quote from American Towers for Preparing Form 854, line 27.	\$1,250.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
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	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Sub-total	\$216,293.00	\$181,988.00	N/A	\$13,993.44	N/A

Total for all systems	\$6,273,929.66	\$2,505,697.26	N/A	\$1,225,539.46	N/A
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Components

Actual Information	
Description	File Name
Other Costs	Component Description: Line 37 on quote. #460208938 Amount: \$3,000.00
	Component Description: Line 37 on quote. #460203509 Amount: \$1,500.00
	Component Description: Line 31 on quote. #460208938 Amount: \$625.00
	Component Description: Line 31 on quote. #460203509 Amount: \$312.50
RF System test	Information not provided.
Migratory Bird Assessment Permitting, if needed	Information not provided.
RF Exposure Measurements	Component Description: Line 30 on quote. #460208938 Amount: \$1,875.00
	Component Description: Line 30 on quote. #460203509 Amount: \$937.50

<p>FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase</p>	<p>Information not provided.</p>
<p>ASR modification (prepare FCC Form 854)</p>	<p>Component Description: Line 29 on quote. #460208938</p> <p>Amount: \$83.00</p> <p>Component Description: Line 29 on quote. #460203509</p> <p>Amount: \$41.75</p>
<p>Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet</p>	<p>Information not provided.</p>
<p>NEPA Section 106 environmental review, if needed</p>	<p>Component Description: Line 28 on quote. #460208938</p> <p>Amount: \$675.00</p> <p>Component Description: Line 28 on quote. #460203509</p> <p>Amount: \$337.50</p>
<p>Attorney Fees - Prepare and File request for Special Temporary Authorization</p>	<p>Information not provided.</p>
<p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>
<p>Project management of the transition</p>	<p>Component Description: Line 24 and 25 on quote. #460208938</p> <p>Amount: \$8,490.00</p>

Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations.
#1116
Amount: \$1,254.03

Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations.
#1118
Amount: \$1,609.03

Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations.
#1112
Amount: \$521.40

Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations.
#1096
Amount: \$714.93

Component Description: Line 24 and 25 on quote.
#460203509
Amount: \$4,245.00

	<p>Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104</p> <p>Amount: \$644.80</p> <p>Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104</p> <p>Amount: \$1,359.73</p> <p>Component Description: Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1112</p> <p>Amount: \$1,881.13</p>
Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	<p>Component Description: Line 26 on quote. #460208938</p> <p>Amount: \$1,250.00</p> <p>Component Description: Line 26 on quote. #460203509</p> <p>Amount: \$625.00</p>

<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Component Description: Line 27 on quote. #460208938</p> <p>Amount: \$2,500.00</p> <p>Component Description: Line 27 on quote. #460203509</p> <p>Amount: \$1,250.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p>Information not provided.</p>
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application</p>	<p>Information not provided.</p>
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p>	<p>Information not provided.</p>
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>
<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<p>Information not provided.</p>
<p>Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application</p>	<p>Information not provided.</p>
<p>Comprehensive coverage verification via field study, if needed</p>	<p>Information not provided.</p>

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$161,988.00	\$154,633.00		\$42,453.50	
Site Security	<i>\$6,000.00</i>	\$6,000.00	N/A	N/A	N/A
Grading	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Access Road Upgrades	<i>\$2,500.00</i>	\$2,500.00	N/A	N/A	N/A
Other Costs	<i>\$39,755.00</i>	\$39,755.00	See quote from American Towers for Preparing Form 854, total of line 9,22,23,38,39,40.	\$9,943.75	N/A
ATC one time tower rental during market repack period.	<i>\$57,600.00</i>	\$57,600.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$7,000.00</i>	\$7,000.00	See quote from American Towers for Preparing Form 854, line 36.	\$833.25	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$26,880.00</i>	\$26,880.00	Updated cost of estimated amount per FCC requirement.	\$26,880.00	N/A
Non-zoning permits	<i>\$1,438.00</i>	\$1,438.00	See quote from American Towers for Preparing Form 854, total of line 32 and 35.	\$359.00	N/A
Local Zoning	<i>\$750.00</i>	\$750.00	See quote from American Towers for Preparing Form 854, line 34.	\$187.50	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
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,250.00	N/A	\$4,250.00	N/A
Compound Fencing	<i>\$1,875.00</i>	\$1,875.00	N/A	N/A	N/A
Sub-total	\$161,988.00	\$154,633.00	N/A	\$42,453.50	N/A
Total for all systems	\$6,273,929.66	\$2,505,697.26	N/A	\$1,225,539.46	N/A

Components

Actual Information	
Description	File Name
Site Security	Information not provided.
Grading	Information not provided.
Access Road Upgrades	Information not provided.
Other Costs	<p>Component Description: Line 9,22,23,38,39,40 on quote. #460208938</p> <p>Amount: \$19,887.50</p> <p>Component Description: Line 9,22,23,38,39,40 on quote. #460203509</p> <p>Amount: \$9,943.75</p>
ATC one time tower rental during market repack period.	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	<p>Component Description: Line 36 on quote. #460208938</p> <p>Amount: \$1,666.50</p> <p>Component Description: Line 36 on quote. #460203509</p> <p>Amount: \$833.25</p>

Disposal Costs (for equipment and other waste, net of any salvage value)	<p>Component Description: Disposal cost. #6972</p> <p>Amount: \$26,880.00</p>
Non-zoning permits	<p>Component Description: Line 32 and 35 on quote. #460208938</p> <p>Amount: \$719.00</p>
	<p>Component Description: Line 32 and 35 on quote. #460203509</p> <p>Amount: \$359.00</p>
Local Zoning	<p>Component Description: Line 34 on quote. #460208938</p> <p>Amount: \$375.00</p>
	<p>Component Description: Line 34 on quote. #460203509</p> <p>Amount: \$187.50</p>
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.
DTV Medical Facility Notification	<p>Component Description: Medical notification. #1072</p> <p>Amount: \$4,250.00</p>
Compound Fencing	Information not provided.

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$6,273,929.66	\$2,505,697.26	\$1,225,539.46

Reimbursement Status

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

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

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

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

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

Les Levi
*Chief
Operating
Officer*

05/10/2019

Certification	Section	Question	Response
	<p>Submission of Actual Cost Documentation Statements</p>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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. 3. 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 above-named applicant for the Authorization(s) specified above.

Les Levi
Chief
Operating
Officer

05/10/2019

Attachments