



(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: **0033178641** | Date **02/01**
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 30TH FLOOR 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-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31 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 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
Other Costs	Other Costs
Ice shield for HVAC equipment.	Ice protection for new outdoor HVAC equipment outside the combiner room. The total estimated area is 300 sq. ft.

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
Information not provided.

**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 **New Transmission Line**
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 **Other Transmission Line Expenses Not Listed**
Transmission Line

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
28324	KTBU	DTV
22204	KRIV	DTV
13200	KUVM-CD	DTV
9625	KQBT	FM
11971	KMJQ	FM
11969	KBXX	FM
53847	KXLN-DT	DTV
69531	KZJL	DTV
51569	KTXH	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
Tower permit drawing package	Basic drawing package for municipality permitting.
Ground, Building A and E Permit Drawing Package.	Basic drawing package for municipality permitting.
Construction project management	17.5 hours on modification project management and 42.5 hours for RF installation project management.

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	245
	Explanation	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.
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 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
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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-20	\$1,133,562.50	\$975,359.84		\$12,310.50	
Electrical sub panels	<i>\$20,000.00</i>	\$20,000.00	N/A	N/A	N/A
Ice shield for HVAC equipment.	<i>\$8,000.00</i>	\$8,000.00	N/A	N/A	N/A
Other Costs	<i>\$2,312.50</i>	\$2,312.50	N/A	\$2,312.50	N/A
Other -- Building Addition Size: 1500.0	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$28,600.00	\$8,000.00	N/A	\$1,562.50	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$20,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$15,000.00	N/A	\$2,268.75	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$852,047.34	N/A	\$0.00	N/A
10 Ton system	\$38,900.00	\$25,000.00	N/A	\$6,166.75	N/A

Sub-total	\$1,133,562.50	\$975,359.84	N/A	\$12,310.50	N/A
Total for all systems	\$4,367,408.49	\$2,323,705.83	N/A	\$255,191.04	N/A

Components

Actual Information	
Description	File Name
Electrical sub panels	Information not provided.
Ice shield for HVAC equipment.	Information not provided.
Other Costs	Component Description: Transmitter related cost, line 10 and 11 on quote. #460203509 Amount: \$2,312.50
Other -- Building Addition Size: 1500.0	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Component Description: Transmitter related cost, line 7 on quote. #460203509 Amount: \$1,562.50
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Component Description: Transmitter related cost, line 6 on quote. #460203509 Amount: \$2,268.75

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description: 25% downpayment, upgrade amount excluded. #9500085909 Amount: \$196,837.50 Component Description: 75% balance of the project. #9500094092 Amount: \$655,209.84
10 Ton system	Component Description: Transmitter related cost, line 8 on quote. #460203509 Amount: \$6,166.75

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	\$124,063.00	\$118,733.00		\$31,650.00	
Combiner Installation	<i>\$8,333.00</i>	\$8,333.00	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
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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	\$69,000.00	\$69,000.00	N/A	\$31,650.00	N/A
Primary Antenna PEPL42C	\$397,280.00	\$219,920.00		\$60,780.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,916.75	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$149,920.00	N/A	\$37,480.00	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$9,600.00	N/A	\$4,800.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$54,000.00	N/A	\$15,583.25	N/A
Sub-total	\$521,343.00	\$338,653.00	N/A	\$92,430.00	N/A

Total for all systems	\$4,367,408.49	\$2,323,705.83	N/A	\$255,191.04	N/A
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Components

Actual Information	
Description	File Name
Combiner Installation	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	Component Description: Antenna related cost, line item 1 & 5 on quote. #460203509 Amount: \$31,650.00
Sweep test of existing antenna	Component Description: Antenna related cost, line 14 and 33 on quote. #460203509 Amount: \$2,916.75
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Antenna related cost, line 12 on quote. #460203509 Amount: \$37,480.00

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	<table> <tr> <td data-bbox="707 85 1102 293">Component Description:</td><td data-bbox="1102 85 1422 293">Antenna related cost, line 2 and 15 on quote. #460203509</td></tr> <tr> <td data-bbox="707 293 1102 427">Amount:</td><td data-bbox="1102 293 1422 427">\$4,800.00</td></tr> </table>	Component Description:	Antenna related cost, line 2 and 15 on quote. #460203509	Amount:	\$4,800.00
Component Description:	Antenna related cost, line 2 and 15 on quote. #460203509				
Amount:	\$4,800.00				
New combiner, cost per channel (without antenna)	<table> <tr> <td data-bbox="707 427 1102 636">Component Description:</td><td data-bbox="1102 427 1422 636">Antenna related cost, line 13 and 16 on quote. #460203509</td></tr> <tr> <td data-bbox="707 636 1102 754">Amount:</td><td data-bbox="1102 636 1422 754">\$15,583.25</td></tr> </table>	Component Description:	Antenna related cost, line 13 and 16 on quote. #460203509	Amount:	\$15,583.25
Component Description:	Antenna related cost, line 13 and 16 on quote. #460203509				
Amount:	\$15,583.25				

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	
Interim Antenna Connection to New Transmitter	\$68,351.24	\$68,351.24	N/A	N/A	N/A
Rigid Transmission Line - copper, 7 3/16" broadband	\$1,398,600.00	\$390,000.00	N/A	\$71,400.00	N/A
Sub-total	\$1,466,951.24	\$458,351.24	N/A	\$71,400.00	N/A
Total for all systems	\$4,367,408.49	\$2,323,705.83	N/A	\$255,191.04	N/A

Components

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

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	
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,450.00	N/A	\$2,772.00	N/A
Tower permit drawing package	<i>\$4,700.00</i>	\$4,700.00	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	N/A	\$25,000.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$90,000.00	N/A	\$22,500.00	N/A
Construction project management	<i>\$7,500.00</i>	\$7,500.00	N/A	N/A	N/A
Sub-total	\$878,900.00	\$226,350.00	N/A	\$50,272.00	N/A

Total for all systems	\$4,367,408.49	\$2,323,705.83	N/A	\$255,191.04	N/A
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Components

Actual Information	
Description	File Name
Structural engineering tower load study for a documented tower with candelabra	Component Description: Tower related cost, line 19 on quote. #460203509 Amount: \$2,772.00
Tower permit drawing package	Information not provided.
Ground, Building A and E Permit Drawing Package.	Information not provided.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Tower related cost, line 4 and 21 on quote. #460203509 Amount: \$25,000.00
Major tower reinforcement /modifications	Component Description: Tower related cost, line 3 and 20 on quote. #460203509 Amount: \$22,500.00
Construction project management	Information not provided.

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	\$211,793.00	\$177,488.00		\$13,205.04	
Other Costs	<i>\$1,500.00</i>	\$1,500.00	N/A	\$1,500.00	N/A
Site Coordination Meeting	<i>\$1,250.00</i>	\$1,250.00	N/A	\$312.50	N/A
Migratory Bird Assessment Permitting, if needed	<i>\$438.00</i>	\$438.00	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
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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A

NEPA Section 106 environmental review, if needed	\$6,310.00	\$1,350.00	N/A	\$337.50	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
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
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$937.50	N/A
RF System test	\$5,000.00	\$5,000.00	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
Project management of the transition	\$38,710.00	\$24,500.00	N/A	\$8,200.79	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	\$625.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,250.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$200.00	N/A	\$41.75	N/A
Sub-total	\$211,793.00	\$177,488.00	N/A	\$13,205.04	N/A
Total for all systems	\$4,367,408.49	\$2,323,705.83	N/A	\$255,191.04	N/A

Components

Actual Information	
Description	File Name
Other Costs	Component Description: Line 37 on quote. #460203509 Amount: \$1,500.00
Site Coordination Meeting	Component Description: Line 31 on quote. #460203509 Amount: \$312.50

Migratory Bird Assessment Permitting, if needed	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit 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, License to Cover Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
NEPA Section 106 environmental review, if needed	Component Description: Line 28 on quote. Amount: #460203509 \$337.50
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
RF Exposure Measurements	Component Description: Line 30 on quote. #460203509 Amount: \$937.50
RF System test	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Project management of the transition	<table> <tr> <td data-bbox="722 174 1029 208">Component Description:</td><td data-bbox="1161 174 1374 443">Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104</td></tr> <tr> <td data-bbox="722 454 831 488">Amount:</td><td data-bbox="1161 454 1281 488">\$1,359.73</td></tr> <tr> <td data-bbox="722 595 1029 629">Component Description:</td><td data-bbox="1161 595 1374 707">Line 24 and 25 on quote. #460203509</td></tr> <tr> <td data-bbox="722 719 831 752">Amount:</td><td data-bbox="1161 719 1281 752">\$4,245.00</td></tr> <tr> <td data-bbox="722 860 1029 893">Component Description:</td><td data-bbox="1161 860 1374 1128">Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1112</td></tr> <tr> <td data-bbox="722 1140 831 1173">Amount:</td><td data-bbox="1161 1140 1281 1173">\$1,881.13</td></tr> <tr> <td data-bbox="722 1281 1029 1314">Component Description:</td><td data-bbox="1161 1281 1374 1550">Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1096</td></tr> <tr> <td data-bbox="722 1561 831 1594">Amount:</td><td data-bbox="1161 1561 1262 1594">\$714.93</td></tr> </table>	Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104	Amount:	\$1,359.73	Component Description:	Line 24 and 25 on quote. #460203509	Amount:	\$4,245.00	Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1112	Amount:	\$1,881.13	Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1096	Amount:	\$714.93
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Amount:	\$1,881.13																
Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1096																
Amount:	\$714.93																
Prepare and or review reimbursement form	Information not provided.																
Address transition timing and coordination issues w/ other stations and wireless	<table> <tr> <td data-bbox="722 1839 1029 1872">Component Description:</td><td data-bbox="1161 1839 1366 1906">Line 26 on quote. #460203509</td></tr> <tr> <td data-bbox="722 1917 831 1951">Amount:</td><td data-bbox="1161 1917 1262 1951">\$625.00</td></tr> </table>	Component Description:	Line 26 on quote. #460203509	Amount:	\$625.00												
Component Description:	Line 26 on quote. #460203509																
Amount:	\$625.00																

Perform engineering study for new channel assignment and antenna development	Component Description: Line 27 on quote. #460203509 Amount: \$1,250.00
ASR modification (prepare FCC Form 854)	Component Description: Line 29 on quote. #460203509 Amount: \$41.75

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	\$154,858.75	\$147,503.75		\$15,573.50	
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
Compund Fencing	<i>\$1,875.00</i>	\$1,875.00	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>\$9,943.75</i>	\$9,943.75	N/A	\$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
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
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	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

Disposal Costs (for equipment and other waste, net of any salvage value)	\$50,000.00	\$50,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$7,000.00	\$7,000.00	N/A	\$833.25	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,250.00	N/A	\$4,250.00	N/A
Non-zoning permits	\$1,000.00	\$1,000.00	N/A	\$359.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Local Zoning	\$750.00	\$750.00	N/A	\$187.50	N/A
Sub-total	\$154,858.75	\$147,503.75	N/A	\$15,573.50	N/A
Total for all systems	\$4,367,408.49	\$2,323,705.83	N/A	\$255,191.04	N/A

Components

Actual Information	
Description	File Name
Site Security	Information not provided.
Grading	Information not provided.
Compound Fencing	Information not provided.
Access Road Upgrades	Information not provided.

Other Costs	Component Description: Line 9,22,23,38,39,40 on quote. #460203509 Amount: \$9,943.75
ATC one time tower rental during market repack period.	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
MVPD Notification of Channel Change	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Equipment Delivery and Handling Charges	Component Description: Line 36 on quote. #460203509 Amount: \$833.25
DTV Medical Facility Notification	Component Description: Medical notification. #1072 Amount: \$4,250.00
Non-zoning permits	Component Description: Line 32 and 35 on quote. #460203509 Amount: \$359.00
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.

FCC Filing Fees - Special Temporary Authorization request	Information not provided.				
Local Zoning	<table><tr><td>Component Description:</td><td>Line 34 on quote. #460203509</td></tr><tr><td>Amount:</td><td>\$187.50</td></tr></table>	Component Description:	Line 34 on quote. #460203509	Amount:	\$187.50
Component Description:	Line 34 on quote. #460203509				
Amount:	\$187.50				

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,367,408.49	\$2,323,705.83	\$255,191.04

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
	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. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

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 <i>Chief Operating Officer</i> 02/01/2019

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	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).	
		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 <i>Chief Operating Officer</i> 02/01/2019

Attachments