

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 31870 Service: DTV Call KYAZ Channel: 25 (UHF)

Sign:

0000028371

Number:

ID:

File

FRN: **0033178641** Date **04/05**

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.	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

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	
Manufacturer and Type	Model	HP60TDP
	Year	2008
	Туре	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

') No
Yes
V

	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
	Туре	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 leashold 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
	Ice shield for HVAC equipment.	Ice protection for new outdoor HVAC equipment outside the combiner room. The total estimated area is 300 sq. ft.
	Route new main transmitter to existing Mask Filter	Route new main transmitter to existing Mask Filter

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.
Other Costs	Other Costs

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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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.

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	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	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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
	Туре	
	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?	В
	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 ^{Seffien}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Existing Transmission Line

Primary Transmission

n 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	
	Туре	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

New Transmission Line

Primary	Г
Transmission	n

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
	Туре	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	Naine	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

Description	Type of change Tower Use Description of Use Ownership Is this tower consider Complex? Is this tower currently shared with any other	Modify Existing Primary (Main) N/A Leased Candelabra
	Description of Use Ownership Is this tower consider Complex?	N/A Leased
	Ownership Is this tower consider Complex?	Leased
	Is this tower consider Complex?	
		Candelabra
	le 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
500000000000000000000000000000000000000	Latitude (NAD83)	29° 33' 45.2" N-
North American Datum of 1983))	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
53847	KXLN-DT	DTV
11969	KBXX	FM
69531	KZJL	DTV
9625	KQBT	FM
11971	KMJQ	FM
22204	KRIV	DTV
13200	KUVM-CD	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.
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.

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	Prepare and file Form FCC Construction Permit Application	Yes
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	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

Other Professional Services Expenses Not Listed

Services Costs	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.
Compund 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).

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter THU9EVO-36	\$2,947,311.40	\$1,039,677.66		\$949,928.00	
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.	\$43,106.25	N/A
10 Ton system	\$38,900.00	\$24,667.00	See quote from American Towers for Preparing Form 854, line 8.	\$18,499.75	N/A
Other Costs	\$9,250.00	\$9,250.00	See quote from American Towers for Preparing Form 854, total of line 10 and 11.	\$6,937.50	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$857,886.00	N/A	\$853,447.34	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	\$4,438.26	N/A
			superseded.		
Electrical sub panels	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Route new main transmitter to existing Mask Filter	\$18,811.40	\$18,811.40	N/A	\$18,811.40	N/A
Ice shield for HVAC equipment.	\$8,000.00	\$8,000.00	N/A	N/A	N/A
Other Building Addition Size: 1500.0	\$25,000.00	\$25,000.00	N/A	N/A	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.	\$4,687.50	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$20,000.00	N/A	N/A	N/A
Sub-total	\$2,947,311.40	\$1,039,677.66	N/A	\$949,928.00	N/A
Total for all systems	\$6,297,049.66	\$2,527,115.92	N/A	\$1,713,369.46	N/A

Components

Actual Information Description	File Name	
Switchgear - industrial 800 amp	Component Description: Amount:	Transmitter related cost. #6972 \$36,300.00
	Component Description:	Transmitter related cost, line 6 on quote. #460203509
	Amount:	\$2,268.75
	Component Description:	Transmitter related cost, line 6 on quote. #460208938
	Amount:	\$4,537.50
10 Ton system	Component Description:	Transmitter related cost, line 8 on quote. #460203509
	Amount:	\$6,166.75
	Component Description:	Transmitter related cost, line 8 on quote. #460208938
	Amount:	\$12,333.00

Other Costs		
	Component Description:	Transmitter related
		cost, line 10 and 11 on quote.
		#460203509
	Amount:	\$2,312.50
	Component Description:	Transmitter related cost, line 10 and
		11 on quote.
	Amount:	#460208938 \$4,625.00
UHF - Liquid Cooled Solid State Transmitter 52 - 61		
kW	Component Description:	Transmitter related cost. #013119- HOU1
	Amount:	\$1,400.00
	Component Description:	Transmitter related
	Amount:	cost. #9500092933 \$4,438.26
	Component Description:	Transmitter cost. 25% down.
		#9500085909
	Amount:	\$196,837.50
	Component Description:	Transmitter cost,
		75% plus tax
		upgrade cost excluded.
		excilided
		#9500094092

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description:	Transmitter related cost. #9500092933
	Amount:	\$4,438.26
	Component Description:	75% balance of the project.
	Amount:	#9500094092 \$655,209.84
	Component Description:	25% downpayment, upgrade amount excluded. #9500085909
	Amount:	\$196,837.50
Electrical sub panels	Information not provided.	
Route new main transmitter to existing Mask Filter	Component Description: Amount:	Transmitter related cost. #6972 \$18,811.40
Ice shield for HVAC equipment.	Information not provided.	
Other Building Addition Size: 1500.0	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Component Description:	Transmitter related
	Amount:	cost, line 7 on quote. #460203509 \$1,562.50
	Component Description:	Transmitter related cost, line 7 on quote. #460208938
		40016. #700200330

Transformer 3 phase/480v -
150 KVA

Information not provided.

Cost Information

Antennas

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

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU- 24WB-C160	\$181,663.00	\$176,333.00		\$94,950.00	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	\$126,600.00	\$126,600.00	See quote from American Towers for Preparing Form 854, total of line 1 and 5.	\$94,950.00	N/A
Combiner Installation	\$8,333.00	\$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
Primary Antenna PEPL42C	\$420,823.02	\$266,663.02		\$205,882.52	

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.	\$46,749.75	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.	\$14,400.00	N/A
Transmission line run to shared Combiner room	\$23,543.02	\$23,543.02	N/A	\$23,543.02	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.	\$8,749.75	N/A
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.	\$112,440.00	N/A
Sub-total	\$602,486.02	\$442,996.02	N/A	\$300,832.52	N/A
Total for all systems	\$6,297,049.66	\$2,527,115.92	N/A	\$1,713,369.46	N/A

Components

Actual Information Description	File Name	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	Component Description: Amount:	Antenna related cost, line 1 & 5 on the quote. #460208938 \$63,300.00
	Amount	400,000.00
	Component Description:	Antenna related cost, line item 1 & 5 on quote. #460203509
	Amount:	\$31,650.00
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.	
New combiner, cost per channel (without antenna)	Component Description:	Antenna related cost, line 13 and 16 on quote.
	Amount:	#460203509 \$15,583.25
	Component Description:	Antenna related cost, line 13 and 16 on quote. #460208938
	Amount:	\$31,166.50

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	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.
	Amount:	#460208938 \$9,600.00
Transmission line run to		
shared Combiner room	Component Description:	Antenna related cost. #6972
	Amount:	\$23,543.02
Sweep test of existing		
antenna	Component Description:	Antenna related cost, line 14 and 33 on quote. #460203509
	Amount:	\$2,916.75
	Component Description:	Antenna related cost, line 14 and
		33 on quote. #460208938
	Amount:	\$5,833.00

UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized

Component Description: Antenna related

cost, line 12 on

quote.

#460208938

Amount: \$74,960.00

Component Description: Antenna related

cost, line 12 on

quote.

#460203509

Amount: \$37,480.00

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$1,466,951.24	\$458,351.24		\$214,200.00	
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	See quote from American Towers for Preparing Form 854, line 17.	\$214,200.00	N/A
Sub-total	\$1,466,951.24	\$458,351.24	N/A	\$214,200.00	N/A
Total for all systems	\$6,297,049.66	\$2,527,115.92	N/A	\$1,713,369.46	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.

#460208938

Amount: \$142,800.00

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		\$150,816.00	
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.	\$67,500.00	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.	\$8,316.00	N/A
Tower permit drawing package	\$4,700.00	\$4,700.00	N/A	N/A	N/A
Construction project management	\$7,500.00	\$7,500.00	N/A	N/A	N/A
Ground, Building A and E Permit Drawing Package.	\$4,700.00	\$4,700.00	N/A	N/A	N/A

Complex	\$421,000.00	\$100,000.00	See quote	\$75,000.00	N/A
Tower			from		
(includes, for			American		
example,			Towers for		
those with			Preparing		
candelabras			Form 854,		
and/or			total of line		
stacked			4 and 21.		
antennas)					
Sub-total	\$878,900.00	\$226,350.00	N/A	\$150,816.00	N/A
Total for all systems	\$6,297,049.66	\$2,527,115.92	N/A	\$1,713,369.46	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

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

Cost Information

Outside Professional Services

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

Description Outside Professional Services	Predetermined Cost Estimate \$216,293.00	Estimated Cost \$181,988.00	Estimated Cost Justification	Actual Cost \$32,491.44	Actual Cost Justification
NEPA Section 106 environmental review, if needed	\$6,310.00	\$1,350.00	See quote from American Towers for Preparing Form 854, line 28.	\$1,012.50	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$200.00	See quote from American Towers for Preparing Form 854, line 29.	\$124.75	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	See quote from American Towers for Preparing Form 854, line 30.	\$2,812.50	N/A
Site Coordination Meeting	\$1,250.00	\$1,250.00	See quote from American Towers for Preparing Form 854, line 31.	\$937.50	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.	\$3,750.00	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, License to Cover Application	\$1,580.00	\$1,500.00	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, Construction Permit Application	\$2,105.00	\$2,000.00	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
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.	\$1,875.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$38,710.00	\$24,500.00	N/A	\$17,479.19	N/A
Other Costs	\$6,000.00	\$6,000.00	See quote from American Towers for Preparing Form 854, line 37.	\$4,500.00	N/A
RF System test	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Migratory Bird Assessment Permitting, if needed	\$438.00	\$438.00	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

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
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
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
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

Sub-total	\$216,293.00	\$181,988.00	N/A	\$32,491.44	N/A
Total for all systems	\$6,297,049.66	\$2,527,115.92	N/A	\$1,713,369.46	N/A

Components

Actual Information Description	File Name	
NEPA Section 106 environmental review, if needed	Component Description: Amount:	Line 28 on quote. #460208938 \$675.00
	Component Description: Amount:	Line 28 on quote. #460203509 \$337.50
ASR modification (prepare FCC Form 854)	Component Description: Amount:	Line 29 on quote. #460208938 \$83.00
	Component Description: Amount:	Line 29 on quote. #460203509 \$41.75
RF Exposure Measurements	Component Description: Amount:	Line 30 on quote. #460208938 \$1,875.00
	Component Description: Amount:	Line 30 on quote. #460203509 \$937.50

Site Coordination Meeting	Component Description: Amount:	Line 31 on quote. #460208938 \$625.00
	Component Description: Amount:	Line 31 on quote. #460203509 \$312.50
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Line 27 on quote. #460203509 \$1,250.00
	Component Description: Amount:	Line 27 on quote. #460208938 \$2,500.00
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.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Address transition timing and coordination issues w/ other stations and wireless	Component Description: Amount:	Line 26 on quote. #460203509 \$625.00
	Component Description: Amount:	Line 26 on quote. #460208938 \$1,250.00
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description: Amount:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1096 \$714.93
	Component Description: Amount:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1112 \$521.40
	Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations.
	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: 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.

#1104

Amount: \$1,359.73

Component Description: Line 24 and 25 on

quote.

#460208938

Amount: \$8,490.00

Component Description: Portion of general

repack matter

invoice

attributable to this station - divided by 15 stations.

#1112

Amount: \$1,881.13

	Component Description: Amount:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104 \$644.80
Other Costs	Component Description: Amount:	Line 37 on quote. #460203509 \$1,500.00
	Component Description: Amount:	Line 37 on quote. #460208938 \$3,000.00
RF System test	Information not provided.	
Migratory Bird Assessment Permitting, if needed	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	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), Construction Permit Application	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual C
Other Expenses	\$185,108.00	\$177,753.00		\$65,101.50	
Local Zoning	\$750.00	\$750.00	See quote from American Towers for Preparing Form 854, line 34.	\$562.50	N/A
Non-zoning permits	\$1,438.00	\$1,438.00	See quote from American Towers for Preparing Form 854, total of line 32 and 35.	\$1,078.00	N/A
Equipment Delivery and Handling Charges	\$7,000.00	\$7,000.00	See quote from American Towers for Preparing Form 854, line 36.	\$2,499.75	N/A
Other Costs	\$39,755.00	\$39,755.00	See quote from American Towers for Preparing Form 854, total of line 9,22,23,38,39,40.	\$29,831.25	N/A
Site Security	\$6,000.00	\$6,000.00	N/A	N/A	N/A
Grading	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Compund Fencing	\$1,875.00	\$1,875.00	N/A	N/A	N/A
Access Road Upgrades	\$2,500.00	\$2,500.00	N/A	N/A	N/A
ATC one time tower rental during market repack period.	\$57,600.00	\$57,600.00	N/A	N/A	N/A

MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Equipment Storage	\$2,000.00	\$2,000.00	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	\$26,880.00	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
Sub-total	\$185,108.00	\$177,753.00	N/A	\$65,101.50	N/A
Total for all systems	\$6,297,049.66	\$2,527,115.92	N/A	\$1,713,369.46	N/A

Actual Information Description	File Name	
Local Zoning	Component Description: Amount:	Line 34 on quote. #460203509 \$187.50
	Component Description: Amount:	Line 34 on quote. #460208938 \$375.00
Non-zoning permits	Component Description: Amount:	Line 32 and 35 on quote. #460203509 \$359.00
	Component Description: Amount:	Line 32 and 35 on quote. #460208938 \$719.00
Equipment Delivery and Handling Charges	Component Description: Amount:	Line 36 on quote. #460208938 \$1,666.50
	Component Description: Amount:	Line 36 on quote. #460203509 \$833.25

Other Costs		
	Component Description:	Line 9,22,23,38,39,40 on quote. #460203509
	Amount:	\$9,943.75
	Component Description: Amount:	Line 9,22,23,38,39,40 on quote. #460208938 \$19,887.50
Site Security	Information not provided.	
Grading	Information not provided.	
Compund Fencing	Information not provided.	
Access Road Upgrades	Information not provided.	
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.	
Disposal Costs (for equipment and other waste, net of any salvage	Component Description:	Disposal cost. #6972
value)	Amount:	\$26,880.00
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	

FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
DTV Medical Facility Notification	Component Description:	Medical notification. #1072
	Amount:	\$4,250.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$6,297,049.66	\$2,527,115.92	\$1,713,369.46

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

Section Question Response

Submission of Estimated Expenses Statements

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

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 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 abovenamed applicant for the Authorization(s) specified above. Les Levi Chief Operating Officer

04/05/2019

Section Question Response

Submission of Actual Cost Documentation Statements

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

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 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. Les Levi Chief Operating Officer

04/05/2019

Attachments