

Federal Communications Commission

(REFERENCE CO	PY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File Number:	31870 000002	Service: DTV 28371	Call Sign:	KYAZ	Channel: 25 (UHF)
FRN: 00 3	33178641	Date Submitted:	04/19 /2019		

Applicant Name, Type, and Contact Information

Applicant 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information				
Contact 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	Existing Transmitter Information			
Transmitter	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	Тwo	
		Power Capacity	40 kW	

Existing Transmitter Information

Primary	New Transmitter Costs			
Transmitter	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 Other Transmitter Costs

Transmitter	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
	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 Other Transmitter Cost Not Listed

Transmitter	Name	Description
	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.

Route new main transmitter to existing	Route new main transmitter to existing
Mask Filter	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.

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information		
Antenna	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

ntenna	nna Section	Question	Response
	New Antenna	Use	Primary (Main
	Description	Description of Use	N/A
		Change Type	Purchase Nev
		Is this a request for upgraded equipment?	Yes
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	Yes
		Is antenna directional?	Yes
New Antenna		Will antenna be located on or in close proximity to an antenna farm?	No
	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	Other Antenna Costs		
Antenna	Section	Que	
		_	

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	Other Antenna Cost Not Listed		
Antenna	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	
		Is antenna shared? N Is antenna directional? N Will antenna be located on or in close proximity to an antenna farm? N Class F Mounting S Antenna position in stack F Polarization F	Yes	
	New Antenna Manufacturer and Type	Class	Full Power	
		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
Justification for New Antenna

Interim Other Antenna Costs

Antenna	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	Yes
	transmission line and antenna?	

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.

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

ransmissio	n 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 Is the existing transmission line shared with another station or stations?	N/A
			Yes
		Is Transmission Line in operating condition?	Yes
-	Existing Transmission	Manufacturer	
	Line Manufacturer and Type	Type Diameter	Rigid
			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

Primary Existing Transmission Line

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			
Transmissio	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			
Transmissio	n _{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	Section	Question	Response
Equipment And Rigging Costs	Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Existing Tower

Primary Tower	Existing Tower			
	Section	Question	Response	
	Existing Tower	Type of change	Modify Existing	
	Description	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	Do you have a tower registration number?	Yes	
	Structure Registration	ASR Number	1059622	
	Coordinates (NAD83 (North American Datum	Latitude (NAD83)	29° 33' 45.2" N-	
	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
51569	КТХН	DTV
69531	KZJL	DTV
11969	KBXX	FM
53847	KXLN-DT	DTV
11971	KMJQ	FM
9625	KQBT	FM
13200	KUVM-CD	DTV
22204	KRIV	DTV

Other Types of Users

Users

Wireless

LPTV

FM translator

Tower Modification Costs

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 Rigging Costs

Tower

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

Primary Other Tower Expenses Not Listed

NameDescriptionTower permit drawing packageBasic drawing package for municipality
permitting.Ground, Building A and E Permit
Drawing Package.Basic drawing package for municipality
permitting.Construction project management17.5 hours on modification project
management and 42.5 hours for RF
installation project management.

Outside Professional	Section	Question	Response
	I 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

Outside Professional	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

Outside Other Professional Services Expenses Not Listed

Other	Section	Question	Response
Expenses	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 Not Listed

Other Expenses

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. Th 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 a 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.

Transmitters

Cost Information

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	\$1,040,699.00		\$955,388.00	
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$20,000.00	N/A	N/A	N/A
Other Building Addition Size: 1500.0	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Ice shield for HVAC equipment.	\$8,000.00	\$8,000.00	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
Electrical sub panels	\$20,000.00	\$20,000.00	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

Total for all	\$6,273,929.66	\$2,505,017.26	N/A	\$1,718,829.46	N/A
systems					

Components

Actual Information Description	File Name	
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Other Building Addition Size: 1500.0	Information not provided.	
Ice shield for HVAC equipment.	Information not provided.	
Route new main transmitter to existing Mask Filter	Component Description: Amount:	Transmitter related cost. #6972 \$18,811.40
Electrical sub panels	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Component Description: Amount:	Transmitter related cost, line 7 on quote. #460203509 \$1,562.50
	Component Description:	Transmitter related cost, line 7 on quote. #460208938
	Amount:	\$3,125.00

Other Costs		
	Component Description:	Transmitter related cost, line 10 and 11 on quote. #460208938
	Amount:	\$4,625.00
	Component Description:	Transmitter related cost, line 10 and 11 on quote. #460203509
	Amount:	\$2,312.50
10 Ton system		-
	Component Description:	Transmitter related cost, line 8 on quote. #460208938
	Amount:	\$12,333.00
	Component Description:	Transmitter related cost, line 8 on quote. #460203509
	Amount:	\$6,166.75

State Transmitter 52 - 61 kW	Component Description:	Transmitter related cost. #950009740
	Amount:	\$5,460.00
	Component Description:	Transmitter cost plus tax, upgrade
	Amount:	cost excluded. #9500094092 \$852,047.34
	Component Description:	Transmitter related cost. #950009293
	Amount:	\$4,438.26
	Component Description:	Transmitter related cost. #013119- HOU1
	Amount:	\$1,400.00
Switchgear - industrial 800 amp		–
	Component Description: Amount:	Transmitter related cost. #6972
	Amount:	\$36,300.00
	Component Description:	Transmitter related cost, line 6 on quote. #46020350
	Amount:	\$2,268.75
	Component Description:	Transmitter related cost, line 6 on
		quote. #46020893

State Transmitter 21 - 31 ‹W	Component Description:	25% downpayment, upgrade amount excluded.
	Amount:	#9500085909 \$196,837.50
	Component Description:	Transmitter related cost. #9500092933
	Amount:	\$4,438.26
	Component Description:	75% balance of the
		project. #9500094092
	Amount:	\$655,209.84

Antennas

Cost Information

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		\$94,950.00	
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
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
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
Primary Antenna PEPL42C	\$420,823.02	\$266,663.02		\$205,882.52	

Total for all systems	\$6,273,929.66	\$2,505,017.26	N/A	\$1,718,829.46	N/A
Sub-total	\$602,486.02	\$442,996.02	N/A	\$300,832.52	N/A
			13 and 16.		
			total of line		
antenna)			Form 854,		
channei (without			Towers for Preparing		
cost per channel			American		
combiner,			from		
New	\$84,200.00	\$62,333.00	See quote	\$46,749.75	N/A
			2 and 15.		
(if needed)			total of line		
/16. feedline			Form 854,		
input, per 7 3			Preparing		
at antenna			Towers for		
broadband,			American		
complex,	÷::,::::::::::::::::::::::::::::::::::	÷••,=•••••	from	÷,	,, .
Elbow	\$16,850.00	\$19,200.00	See quote	\$14,400.00	N/A
			14 and 33.		
			total of line		
			Form 854,		
			Preparing		
			Towers for		
antenna			American		
of existing			from		
Sweep test	\$6,730.00	\$11,667.00	See quote	\$8,749.75	N/A
polarizeu					
circularly polarized					
elliptically or			line 12.		
antenna,			Form 854,		
One station			Preparing		
1000 kW),			Towers for		
Mount (200-			American		
Power Top			from		
UHF - High	\$289,500.00	\$149,920.00	See quote	\$112,440.00	N/A
Combiner room					
shared					
ine run to					
	\$23,543.02	\$23,543.02			

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.	
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
	Component Description:	Antenna related cost, line 1 & 5 o the quote. #460208938
	Amount:	\$63,300.00
Sweep test of existing antenna	Information not provided.	
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Information not provided.	
Transmission line run to shared Combiner room	Component Description:	Antenna related
		cost. #6972

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description:	Antenna related cost, line 12 on
		quote.
	Amount:	#460208938 \$74,960.00
	Amount.	φr=,000.00
	Component Description:	Antenna related
	component Description.	cost, line 12 on
		quote.
		#460203509
	Amount:	\$37,480.00
Sweep test of existing		
antenna	Component Description:	Antenna related
		cost, line 14 and
		33 on quote.
		#460208938
	Amount:	\$5,833.00
	Component Description:	Antenna related
	component Description.	cost, line 14 and
		33 on quote.
		#460203509
	Amount:	\$2,916.75
Elbow complex, broadband,		
at antenna input, per 7 3/16. eedline (if needed)	Component Description:	Antenna related
		cost, line 2 and 15
		on quote.
		#460208938
	Amount:	\$9,600.00
	Component Description:	Antenna related
	Component Description:	Antenna related cost, line 2 and 15
	Component Description:	cost, line 2 and 15
	Component Description:	

New combiner, cost per		
channel (without antenna)	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.
		#460208938
	Amount:	\$31,166.50

Transmission Line

Cost Information

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	
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
Interim Antenna Connection to New Transmitter	\$68,351.24	\$68,351.24	N/A	N/A	N/A
Sub-total	\$1,466,951.24	\$458,351.24	N/A	\$214,200.00	N/A
Total for all systems	\$6,273,929.66	\$2,505,017.26	N/A	\$1,718,829.46	N/A

Actual Information	
Description	File Name

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

Tower Equipment and Rigging Costs

Cost Information

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 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 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.	\$75,000.00	N/A
Sub-total	\$878,900.00	\$226,350.00	N/A	\$150,816.00	N/A
Total for all systems	\$6,273,929.66	\$2,505,017.26	N/A	\$1,718,829.46	N/A

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

load study for a documented tower with candelabra	Component Description:	Tower related cost, line 19 on quote.
	Amount:	#460203509 \$2,772.00
	Component Description:	Tower related cost, line 19 on quote.
	Amount:	#460208938 \$5,544.00
Tower permit drawing package	Information not provided.	
Construction project management	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 2 on quote.
	Amount:	#460203509 \$25,000.00
	Component Description:	Tower related cost, line 4 and 2 on quote.
	Amount:	#460208938 \$50,000.00

Outside Professional Services

Cost Information

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		\$32,491.44	
Other Costs	\$6,000.00	\$6,000.00	See quote from American Towers for Preparing Form 854, line 37.	\$4,500.00	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
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
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
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
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
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.	\$1,012.50	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

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, 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-	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Aux Antenna:					
Prepare					
engineering					
section of FCC					
Form 2100,					
Construction Permit					
Application					
Application					
Perform	\$7,360.00	\$7,000.00	See quote	\$3,750.00	N/A
engineering			from		
study for new			American		
channel			Towers for		
assignment			Preparing		
and antenna			Form 854,		
development			line 27.		
Project	\$38,710.00	\$24,500.00	N/A	\$17,479.19	N/A
management of					
the transition					
Prepare and or	\$2,630.00	\$2,500.00	N/A	N/A	N/A
review					
reimbursement					
form					
Address	\$2,630.00	\$2,500.00	See quote	\$1,875.00	N/A
transition			from		
timing and			American		
coordination			Towers for		
issues w/ other			Preparing		
stations and			Form 854,		
wireless			line 26.		
Prepare	\$3,155.00	\$3,000.00	N/A	N/A	N/A
engineering					
section of FCC					
Form 2100					
(main),					
Construction					
Permit					
Application					
Sub-total	\$216,293.00	\$181,988.00	N/A	\$32,491.44	N/A
Total for all	\$6,273,929.66	\$2,505,017.26	N/A	\$1,718,829.46	N/A

Actual Information Description Other Costs	File Name	
	Component Description: Amount:	Line 37 on quote. #460203509 \$1,500.00
	Component Description: Amount:	Line 37 on quote. #460208938 \$3,000.00
Site Coordination Meeting	Component Description: Amount:	Line 31 on quote. #460208938 \$625.00
	Component Description: Amount:	Line 31 on quote. #460203509 \$312.50
RF System test	Information not provided.	
Migratory Bird Assessment Permitting, if needed	Information not provided.	
RF Exposure Measurements	Component Description: Amount:	Line 30 on quote. #460203509 \$937.50
	Component Description: Amount:	Line 30 on quote. #460208938 \$1,875.00
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.	
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
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.	
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
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.	
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.	
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Line 27 on quote #460208938 \$2,500.00
	Component Description:	Line 27 on quote #460203509 \$1,250.00
Project management of the		
transition	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 \$521.40
Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1116 \$1,254.03
Component Description: Amount:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104 \$644.80
Component Description:	Portion of general repack matter invoice attributable to this station - divided by 15 stations. #1104 \$1,359.73
Component Description: Amount:	Line 24 and 25 on quote. #460208938 \$8,490.00

	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
Prepare and or review reimbursement form	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Component Description:	Line 26 on quote. #460208938
	Amount:	\$1,250.00
	Component Description:	Line 26 on quote. #460203509
	Amount:	\$625.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Other Expenses

Cost Information

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

-	Predetermined	Estimated	Estimated Cost		Actual C
Description	Cost Estimate	Cost	Justification	Actual Cost	Justifica
Other Expenses	\$161,988.00	\$154,633.00		\$65,101.50	
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
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)	\$26,880.00	\$26,880.00	Updated cost of estimated amount per FCC requirement.	\$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
Local Zoning	\$750.00	\$750.00	See quote from American Towers for Preparing Form 854, line 34.	\$562.50	N//
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/ <i>i</i>
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//
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N//
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//
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/
Compund Fencing	\$1,875.00	\$1,875.00	N/A	N/A	N/
Sub-total	\$161,988.00	\$154,633.00	N/A	\$65,101.50	N/
Total for all	\$6,273,929.66	\$2,505,017.26	N/A	\$1,718,829.46	N/

Description	File Name	
Access Road Upgrades	Information not provided.	
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.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Disposal cost. #6972 \$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

Component Description:	Line 34 on quote. #460203509
Amount:	\$187.50
Component Description:	Line 34 on quote.
A	#460208938
Amount:	\$375.00
Component Description:	Line 32 and 35 on
Amount	quote. #460203509 \$359.00
Amount.	φ000.00
Component Description:	Line 32 and 35 on
	quote. #460208938
Amount:	\$719.00
Component Description:	Line 36 on quote.
	#460208938
Amount:	\$1,666.50
Component Description:	Line 36 on quote.
oomponent beschption.	#460203509
Amount:	\$833.25
Information not provided.	
	Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:

Other Costs		
	Component Description:	Line 9,22,23,38,39,40 on
		quote. #460203509
	Amount:	\$9,943.75
	Component Description:	Line
		9,22,23,38,39,40 on
	Amount:	quote. #460208938 \$19,887.50
		• • • • • • •
Site Security	Information not provided.	
Grading	Information not provided.	
Compund Fencing	Information not provided.	

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$6,273,929.66	\$2,505,017.26	\$1,718,829.46

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

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.	
		 The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named 	
		entity acknowledges that all certifications and attached documentation are considered material representations.	
		3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 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
	04/19/2019

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 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).	
		 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).
- 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.

	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
an aut nameo	I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	
		04/19/2019

Attachments