

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

72123 Service: DTV Call **WWJ-TV** Channel: 21 (UHF) Facility

Sign:

0000026787 Number:

ID:

File

FRN: 0003482189 Date 07/30

> Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CBS BROADCASTING INC. Doing Business As: CBS BROADCASTING INC.	Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4074	dryson@cbs. com	Corporation

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email	
[Confidential]				

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Daniel G. Ryson Associate Director of Spectrum Management CBS	Daniel G. Ryson 1725 DeSales Street NW Suite 501 Washington, DC 20036 United States	+1 (202) 457- 4075	dryson@cbs. com

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	New channel 21 TFU-18 antenna and 6-1 /8" line to be installed on the south arm of candelabra. Tower owner providing interim broad band antenna system to be leased.

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	SigmaCD- 2200P2
	Year	1999
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	46 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	ULXTED-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	38.4 kW
	Justification for New Transmitter	GatesAir Won't Retune (See Exhibit 1). IOT replacement is more expensive (See Exhibit 2A). Proposed replacement is less expensive (Exhibit 3B). See also May 2018 Statement.

Primary Transmitter

Other Transmitter Costs

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

	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Various Main Site Electrical Work (See Exhibit 4).
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description	
State Sales Tax	Michigan Sales Tax of 6% on all products and services shown on Exhibit 3B.	
GatesAir Site Survey	Advanced Site Survey Services. Includes as-built and future layout drawings. See Exhibit 3B Item F.	

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?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	425.0 kW

Manufacturer	
Model	TFU-18GTH
Year	1998

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?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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)	264.0 kW
	Manufacturer	
	Model	TFU-18GTH

Year	2018
Justification for New Antenna	Existing antenna cannot be retuned.

Primary 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?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
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

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?	No
New Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	Broadband Slot
	Number of Stations Supported	3
	Number of Panels/Bays	8
	Lower Limit	407.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	0.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	264.0 kW
	Manufacturer	
	Model	TFU-24 WB /VP-C160

Year	2018
Justification for New Antenna	Required for continued operation while main WWJ-TV antenna is replaced.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	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?	В
	Feed Line Size	7 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	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	
44	
21	
43	

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Conduit	This cost includes 200 L/F of 2" conduit and conductor to adequately supply the HVAC unit.
Install Combiner	Cost is for installing and proofing combiner.
Nitrogen Generator	Nitrogen Generator Upgrade. See Exhibit 7A.
Combiner Cage	24X20 fenced combiner cage area materials and installation. See Exhibit 7A
New Electrical Panel	New HVAC electrical sub-panel for new AC unit required for the repack combiner area fed off of existing 480/208 main panel. This equipment is required to provide the existing power to the HVAC unit.
Interim Antenna Rigging	Cost is for the labor to remove the old side- mount analog channel 62 antenna and waveguide, install the new transmission line, and install interim antenna.
Interim Tower Rental	ATC site and tower rental Required for station to minimize on-air disruption, maintain coverage, and complete the tower work in a safe, timely manner. See Exhibit 7A.

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

Primary Transmission Line

Existing Transmission Line

on Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1150 feet per run

Primary Transmission

New Transmission Line

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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1150 feet per run
	Justification for New Transmission Line	Existing line segment length cannot be used on new channel.

Primary

Other Transmission Line Expenses Not Listed

Transmission	Name	Description
	RF Accessories	Coaxial Switch, Switch Controller, Dummy Load, etc. See Exhibit 9, Item C.

Interim

New Transmission Line

Transmissio	n Settion	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	7 3/16 inches
		Segment Length	Broadband
		Other Segment Length	
	Number of parallel runs	1	
	Length	995 feet per	
	Justification for New Transmission Line	Material costs for 995 foot 7- 3/16" Broadband transmission line, three (3) elbows and a nitrogen generator for pressurization control on the line.	

Interim Transm

Other Transmission Line Expenses Not Listed

nsmissio	Name	Description
	Interim Coax Switch	Coaxial switch between interim transmitter and interim antenna combiner. Permits transmitter testing. (See Exhibit 3B, Items D and G.)
	TX Line to Interim Combiner	Horizontal run of transmission line between transmitter and interim combiner. (See Exhibit 7A, last Page. Please disregard identical Items shown on Exhibit 3A, Items I and K.)

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

		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	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1003429
Coordinates (NAD83 (Latitude (NAD83)	42° 26' 52.5" N-
North American Datum of 1983))	Longitude (NAD83)	083° 10' 23.1" W-
	Overall Structure Height	1086.93 feet
	Support Structure Height	1012.13 feet
	Ground Elevation Above Mean Sea Level (AMSL)	662.07 feet

Structure Type	GTOWER - Guyed Structure Used for Communication
Tower Owner	American Tower, LLC
Date Constructed	06/11/1999

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
6056	WRCJ-FM	FM
59952	WDTW-FM	FM
6594	WNIC	FM
59592	WJLB	FM
74211	WMYD	DTV
6592	WKQI	FM
16817	WTVS	DTV

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Permit Drawing Packages	Construction drawing packages for Tower and Ground Permits.
Structural Engineering	Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment (see Exhibit 6).

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Company lacks internal resources.
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	No
	Quantity	N/A
	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	No
Services	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A

	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional

Other Professional Services Expenses Not Listed

II Services Costs	Description
Site Coordination Meeting	Meeting to coordinate efforts among broadcasters, tower owner, and tower contractor.

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	No
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?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	No
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
Deinstall Old Transmitter	Deinstallation of present primary transmitter. (See Exhibit 3A Item G.)

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 ULXTED-60	\$1,625,834.31	\$1,524,783.17		\$424,059.72	
GatesAir Site Survey	\$9,685.80	\$9,685.80	GatesAir Advanced Site Survey. Provides as-built and proposed facility layout drawings. (See Exhibit 3B, Item F.)	N/A	N/A
State Sales Tax	\$89, 429 .51	\$89,429.51	6% Michigan State Sales Tax on products and services shown on Exhibit 3B.	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,371,948.86	Please see May 2018 Statement and Exhibit 3B, Items A, B, C, and H.	\$424,059.72	N/A

Other Electrical Service: Various Main Site Electrical Work (See Exhibit 4).	\$53,719.00	\$53,719.00	Various primary transmitter site electrical work. (See Exhibit 4)	N/A	N/A
Sub-total	\$1,625,834.31	\$1,524,783.17	N/A	\$424,059.72	N/A
Total for all systems	\$3,773,405.07	\$2,954,688.63	N/A	\$535,817.22	N/A

Components

Actual Information Description	File Name	
GatesAir Site Survey	Information not provided.	
State Sales Tax	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	1/3 Down payment for ULXTE-60 Main Transmitter. \$424,059.72
Other Electrical Service: Various Main Site Electrical Work (See Exhibit 4).	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).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-24 WB /VP-C160	\$301,213.00	\$276,766.00		\$109,582.50	
Interim Tower Rental	\$57,600.00	\$57,600.00	Rental fee for tower and ground space to support interim antenna, combiner, and interim transmitter. See Exhibit 7A.	\$57,600.00	N/A
Interim Antenna Rigging	\$55,000.00	\$55,000.00	Cost is for the labor to remove the old sidemount analog channel 62 antenna and waveguide and install new line and interim antenna. See Exhibit 7A.	N/A	N/A

New Electrical Panel	\$1,667.00	\$1,667.00	New HVAC electrical sub-panel for new AC unit required for the repack combiner area HVAC unit and combiner monitoring (see Exhibit 7A).	\$1,667.00	N/A
Combiner Cage	\$5,000.00	\$5,000.00	24x20' fenced combiner cage area materials and installation with 10' privacy slats. See Exhibit 7A.	\$5,000.00	N/A
Nitrogen Generator	\$5,000.00	\$5,000.00	Please see Exhibit 7A	\$5,000.00	N/A
Install Combiner	\$8,333.00	\$8,333.00	Cost is for installing and proofing combiner. See Exhibit 7A Page 3.	\$8,333.00	N/A
Conduit	\$833.00	\$833.00	This cost includes 200 L/F of 2" conduit and conductor to adequately supply the HVAC unit (see Exhibit 7A).	\$833.00	N/A

Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$3,333.00	Pro-rata share (see Exhibit 7A).	\$3,333.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$76,667.00	Pro-rata share (see Exhibit 7A).	\$24,483.50	N/A
Sweep test of existing antenna	\$6,730.00	\$3,333.00	See Exhibit 7A	\$3,333.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 264 kW input, directional,, elliptically or circularly polarized	\$60,000.00	\$60,000.00	Pro-rata share (see Exhibit 7A).	N/A	N/A
Primary Antenna TFU-18GTH	\$296,230.00	\$167,396.00		\$0.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$160,996.00	Exhibit 5 Items 1 and 2, minus \$16,950 cost of V- Pol.	N/A	N/A

Sub-total	\$597,443.00	\$444,162.00	N/A	\$109,582.50	N/A
Total for all systems	\$3,773,405.07	\$2,954,688.63	N/A	\$535,817.22	N/A

Components

Actual Information		
Description	File Name	
Interim Tower Rental		
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$57,600.00
Interim Antenna Rigging	Information not provided.	
New Electrical Panel		
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$1,667.00
Combiner Cage		
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See
		Exhibits 6A and 7A).

Nitrogen Generator		
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$5,000.00
Install Combiner		
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$8,333.00
Conduit		
	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$833.00
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$3,333.00

New combiner, cost per channel (without antenna)	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$24,483.50
Sweep test of existing antenna		
antenna	Component Description:	Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A).
	Amount:	\$3,333.00
UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 264 kW input, directional,, elliptically or circularly polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Information not provided.	

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
Interim Transmission Line	\$417,247.54	\$163,522.54		\$0.00	
TX Line to Interim Combiner	\$34,890.00	\$34,890.00	Horizontal run of transmission line between transmitter and interim combiner. Includes Installation. (See Exhibit 7A, last page.)	N/A	N/A
Interim Coax Switch	\$51,022.54	\$51,022.54	Coaxial switch between interim transmitter and combiner. Permits off- air testing of interim transmitter. Includes Installation. (See Exhibit 3B, Items D and G.)	N/A	N/A

Rigid Transmission Line - copper, 7 3 /16" broadband	\$331,335.00	\$77,610.00	Pro-rata Material costs for 995 foot 7-3 /16" Broadband transmission line and three (3) elbows (see Exhibit 7A).	N/A	N/A
Primary Transmission Line	\$340,932.42	\$252,598.12		\$0.00	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$266,800.00	\$178,465.70	Required for new antenna (see Exhibit 5).	N/A	N/A
RF Accessories	\$74,132.42	\$74,132.42	Coaxial Switch, Switch Controller, Dummy Load, etc. See Exhibit 9, Item C.	N/A	N/A
Sub-total	\$758,179.96	\$416,120.66	N/A	\$0.00	N/A
Total for all systems	\$3,773,405.07	\$2,954,688.63	N/A	\$535,817.22	N/A

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	\$621,033.00	\$428,000.00		\$0.00	
Permit Drawing Packages	\$9,400.00	\$9,400.00	Permit drawing packages for tower (\$4,700) and building A&E. See Exhibit 6A.	N/A	N/A
Structural Engineering	\$6,333.00	\$6,333.00	Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment. Cost decreased since last estimate. See Exhibit 6A.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	N/A	N/A

Minor tower	\$158,000.00	\$4,000.00	Cost for	N/A	N/A
reinforcement			plumb and		
/modifications			tension after		
			customer		
			installation is		
			complete.		
			See Exhibit		
			6A.		
Tower	\$26,300.00	\$8,267.00	Cost	N/A	N/A
mapping for			decreased		
an			from prior		
undocumented			estimate. See		
/poorly			Exhibit 6A.		
documented					
tower and					
preparation of					
documentation					
necessary for					
tower load					
study					
Sub-total	\$621,033.00	\$428,000.00	N/A	\$0.00	N/A
Total for all systems	\$3,773,405.07	\$2,954,688.63	N/A	\$535,817.22	N/A

Components

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	\$87,775.00	\$65,083.00		\$2,175.00	
Site Coordination Meeting	\$2,500.00	\$2,500.00	Meeting to coordinate efforts between broadcasters, tower owner, and tower contractors.	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$250.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	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
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	N/A	N/A	N/A
Project management of the transition	\$39,500.00	\$37,500.00	Company lacks internal resources.	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$3,333.00	RF Exposure measurements. See Exhibit 7A.	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$875.00	N/A

RF Consulting	\$2,105.00	\$2,000.00	N/A	\$1,300.00	N/A
Engineer Fees- Aux					
Antenna:					
Prepare					
engineering					
section of					
FCC Form					
2100,					
Construction					
Permit					
Application					
Sub-total	\$87,775.00	\$65,083.00	N/A	\$2,175.00	N/A
Total for all systems	\$3,773,405.07	\$2,954,688.63	N/A	\$535,817.22	N/A

Components

Actual Information Description	File Name
Site Coordination Meeting	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Negotiation of lease and other matters for shared locations	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.
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	Information not provided.

Project management of the transition RF Exposure Measurements	Information not provided. Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Conduct review of channel assignment. Determine Max ERP. \$875.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Amount:	Prepare Engineering Section of FCC Construction Permit Application. \$1,300.00

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	\$83,139.80	\$76,539.80		\$0.00	
Deinstall Old Transmitter	\$21,844.80	\$21,844.80	Complete disconnection of Harris Sigma CD transmitter and move to staging area on site. (See Exhibit 3B, Item I.)	N/A	N/A
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$17,300.00	\$17,300.00	Primary transmitter shipping. See Exhibit 3B, Page 1.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$5,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Local Zoning	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Non- zoning permits	\$5,000.00	\$5,000.00	Local permits and drawings. See ATC quotes.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Sub-total	\$83,139.80	\$76,539.80	N/A	\$0.00	N/A
Total for all systems	\$3,773,405.07	\$2,954,688.63	N/A	\$535,817.22	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,773,405.07	\$2,954,688.63	\$535,817.22

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

Section Question Response

Submission of Estimated Expenses Statements

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

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 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. Andrew J Siegel Assistant Secretary

07/30/2018

Attachments