

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	9610	Service: DTV	Call	WCBS-TV	Channel: 36 (UHF)
ID:			Sign:		
File	000002	25981			
Number:					
FRN: 000)3482189	Date	01/12		
		Submitted:	/2018		

Applicant Name, Type, and Contact Information

Information

Applicant	Address	Phone	Email	Applicant Type
CBS BROADCASTING INC. Doing Business As: CBS BROADCASTING INC.	Edwin Nass 1725 DeSales STREET NW, Suite 501 WASHINGTON, DC 20036 United States	+1 (202) 457- 4602	ELNASS@CBS. COM	Corporation

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and In	r Contact Name and Information				
Contact Information	Applicant	Address	Phone	Email		
	Daniel Ryson , Ryson . Associate Director Spectrum	Daniel Ryson 1725 DeSales St.,	+1 (202) 457- 4518	dryson@cbs. com		
	Management	NW	4310	Com		
	CBS	Suite 501				
		Washington, DC				
		20036				
		United States				

Broadcaster	Question	Response
Information and Transition Plan	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	Facility has dual broadband antennas and combiners. One transmitter and combiner will be pretuned to the post-transition channel and enabled at the appropriate time. The other transmitter and combiner will then be retuned.

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

Auxiliary	Existing Transmitter Information					
Transmitter	Section	Question	Response			
	Existing Transmitter Description	Type of change	Purchase New			
		Use	Auxiliary (Backup)			
		Description of Use	Alternate Main			
		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	Diamond			
		Year	2008			
		Туре	Solid State			
		Solid State Cooling	Air Cooled			
		Solid State Power Capacity	25 kW			

Auxiliary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Auxiliary (Backup)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	Yes			
		Manufacturer				
		Model	ULXT-80			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	68.5 kW			
		Justification for New Transmitter	Harris cannot retune existing transmitter. New FCC allocation requires greater TPO than original to maintain proper coverage on new channel.			

Auxiliary	Other Transmitter Costs				
Transmitter	Section	Question	Response		
	Electrical Service	Service Entrance (3 phases 800A 208V)	No		
		Switchgear (industrial 800 amp)	No		
		Transformer (480V)	No		

	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Install Electrical Power Distribution Including Panel Boards, Cable Tray, Cables, Recepacles, Transformers, and Grounding System.
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

Auxiliary	Other Transmitter Cost Not Listed			
Transmitter	Name	Description		
	Miscellaneous	General Conditions, Contract Submittals, Documentation, Mobilization, Misc. Installation Materials, Hardware, and Field Testing.		
	Install Transmitter, Racks	Installation of Transmitter Cabinets and Racks.		
	Cooling Pumps, Etc.	Install cooling pumps, piping, hoses, heat exchangers.		
	Electrical Accessories	75 kVA 480v/208V Transformer, Parallel Surge Suppressor		

Auxiliary	Add Transmitter Information					
Transmitter	Section	Question	Response			
	Existing Transmitter Description	Type of change	Purchase New			
		Use	Auxiliary (Backup)			
		Description of Use	Used When Main Site Isn't Available			
		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	Diamond			
		Year	2002			
		Туре	Solid State			
		Solid State Cooling	Air Cooled			
		Solid State Power Capacity	10.5 kW			

Auxiliary	New Transmitter Costs		
Transmitter	Section	Question	Response
	New Transmitter	Use	Auxiliary (Backup)
		Change Type	Purchase New
		Is this a request for upgraded equipment?	Yes
		Manufacturer	
		Model	ULXT-80
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	68.5 kW
		Justification for New Transmitter	Please see attached statement.

Auxiliary Other Transmitter Costs

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
		Switchgear (industrial 800 amp)	Yes
		Transformer (480V)	No
		Power	N/A
		Rigid Conduit and Wiring	No
		Size	N/A
		Length	N/A
		Other Electrical Service	No
		Description	N/A
	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?	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

Auxiliary Other Transmitter Cost Not Listed

Transmitter	Name	Description
	Transmitter Installation	West Orange, NJ Transmitter Installation.

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	Sigma	
		Year	2009	
		Туре	Inductive Output Tube	
		IOT Power Type	Тwo	
		Power Capacity	42 kW	

Existing Transmitter Information

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	ULXT-80	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	68.5 kW	
		Justification for New Transmitter	Gates /Harris has stipulated that it cannot and will not attempt to retune any IOT transmitters	

Other Transmitter Costs

Primary

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	No
		Transformer (480V)	No
		Power	N/A
		Rigid Conduit and Wiring	No
		Size	N/A

	Length	N/A
	Other Electrical Service	Yes
	Description	Install Electrical Power Distribution Including Panel Boards, Cable Tray, Cables, Recepacles, Transformers, and Grounding System.
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	
	Install Transmitter, Racks	Installation of Transmitter Cabinets and Racks.	

Cooling Pumps, Etc.	Install cooling pumps, piping, hoses, heat exchangers.
Miscellaneous	General Conditions, Contract Submittals, Documentation, Mobilization, Misc. Installation Materials, Hardware, and Field Testing.

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

Add Antenna Information

Auxiliary	Add Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Retune Existing	
		Antenna Use	Auxiliary (Backup)	
		Description of Use	When Main Site Isn't Available	
		Ownership	Leased	
		Owner	American Tower Corporation	
		Site	N/A	
		Is this antenna currently shared with any other stations?	Yes	
		Is this antenna directional?	Yes	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna Manufacturer and Type	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Broadband Panel	
		Number of Stations Supported	5	
		Number of Panels	34	

Design power capacity in use	7.0 %
Lower Limit	506.00 MHz
Upper Limit	725.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	2041.0 kW
Manufacturer	Dielectric
Model	TUD C5SP- 10/34U-2-B
Year	2006

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

Facility ID	Call Sign
47535	WNBC
22206	WNYW
73333	WNJU
74197	WWOR-TV

Auxiliary Adjustment to Existing Antenna

Antenna	Section	Question	Response
	Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	No

Auxiliary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
		Туре	Additional Module

Number of channels supported	1
Frequencies of channels supported	RF channel
Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number

36

Auxiliary Other Antenna Cost Not Listed

Antenna Information not provided.

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna	Type of change	Lease New	
	Description	Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Owner	Empire State Building	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	Yes	
		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 Manufacturer and Type	Class	Full Power	
	Manufacturer and Type	Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Elliptical	
		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	Composite Antenna	
		ERP: (Effective Radiated Power)	284.0 kW	

Manufacturer	
Model	ESBTUF80
Year	2008

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

Facility ID	Call Sign
74197	WWOR-TV
47535	WNBC

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Lease New	
		Is this a request for upgraded equipment?	No	
		Ownership	Leased	
		Owner	Durst Broadcasting	
		Is antenna shared?	Yes	
		Is antenna directional?	No	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna Manufacturer and Types	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Middle	
		Polarization	Elliptical	
		Туре	Broadband Panel	
		Number of Stations Supported	5	
		Number of Panels/Bays	40	
		Lower Limit	470.00 MHz	
		Upper Limit	656.00 MHz	
		Design power capacity in use	46.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	455.0 kW	
		Manufacturer		
		Model	PEP40E	

Year	2015
Justification for New Antenna	Please see Statement.

Other Antenna Costs

Primary A

Other	Antenna	1 00515	

Antenna	
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Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	Additional Module
	Number of channels supported	1
	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?	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	tern Scatter Analysis Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Enter a list of RF channel numbers.

RF Channel Number

Primary	Other Antenna Cost Not Listed
Antenna	Information not provided.

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

Existing Transmission Line Primary Existing Transmission

ssior	Section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		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 Line Manufacturer and Type	Manufacturer	Myat
		Туре	Rigid
	Diameter	8 3/16 inches	
		Other Diameter	N/A
		Segment Length	Broadband
	Other Segment Length	N/A	
		Number of parallel runs	1
		Length	165 feet per run

Primary Other Transmission Line Expenses Not Listed

Primary Other Transmission Transmission

Auxiliary	Add Transmission Line			
Transmission	n Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Auxiliary (Backup)	
		Description of Use	When Main Site Unavailable	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this transmission currently shared with any other stations?	No	
		Is Transmission Line in operating condition?	Yes	
-	Existing Transmission Line Manufacturer and Type	Manufacturer		
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 1/2 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	65 feet per run	

Auxiliary	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Auxiliary (Backup)	
		Description of Use	When Main Site Unavailable	
		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	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	65 feet per run	
		Justification for New Transmission Line	Incorrect segment lengths for channel 36.	

Auxiliary Other Transmission Line Expenses Not Listed Transmission

Interim	New Transmission Line		
Transmissio	n Linen	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	8 3/16 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	2
		Length	165 feet per run
		Justification for New Transmission Line	Additional line to feed new main and auxiliary, pre- transition combiner modules.

Interim Other Transmission Line Expenses Not Listed

Transmission home tion not provided.

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

Auxiliary	Existing Tower

Tower	•			
	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Auxiliary (Backup)	
		Description of Use	When Primary Unavailable	
		Ownership	Leased	
		Is this tower consider Complex?	No	
		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 Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1060205	
	Coordinates (<u>NAD83</u> (North American Datum of 1983))	Latitude (NAD83)	40° 48' 07.6" N-	
		Longitude (NAD83)	074° 14' 45.5" W-	
		Overall Structure Height	339.89 feet	
		Support Structure Height	299.87 feet	

Ground Elevation Above Mean Sea Level (AMSL)	622.04 feet
Structure Type	LTOWER - Lattice Tower
Tower Owner	American Tower, LLC
Date Constructed	01/01/1974

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
22206	WNYW	DTV
74197	WWOR-TV	DTV
73333	WNJU	DTV

Auxiliary Tower Modification Costs

Tower

Tower

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	No study needed
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

Auxiliary Tower Rigging Costs

SectionQuestionResponseTower Rigging CostsComplex TowerN/AHelicopter Services
RequiredAre helicopter services required?No

Other Tower Expenses Not Listed Auxiliary Tower

Information not provided.

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Is this tower consider Complex?	Located on Building	
		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?	Yes	
		Is tower compliant with Rev G?	Yes	
	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	Leased Located on Building Yes Yes Yes Yes 1263701 12657000000000000000000000000000000000000	
Nor	Coordinates (NAD83 (North American Datum of 1983))Latitude (NAD83)Longitude (NAD83)Coverall Structure HeightSupport Structure HeightSupport Structure Height	Latitude (NAD83)		
		Longitude (NAD83)		
		Overall Structure Height	1791.97 feet	
		Support Structure Height	1334.63 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	14.11 feet	
		Structure Type		
			1	

Tower Owner	Port Authority of New York and New Jersey
Date Constructed	05/10/2013

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
73333	WNJU	DTV
47535	WNBC	DTV
73356	WPXN-TV	DTV

Primary Tower Modification Costs

Tower

Tower

SectionQuestionResponseEngineering StudyPlease what type of engineering study is
required, if any:No study
neededTower ReinforcementsPlease select whether tower reinforcements
are needed:No
reinforcements
needed

Primary Tower Rigging Costs

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

Other Tower Expenses Not Listed

Primary Tower	Other Tower Expenses Not Listed		
	Name	Description	
	Install Transmission Line	Install transmission line between transmitters and combiner modules	

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 sufficient 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 Services	Prepare and file Form FCC Construction Permit Application	No
		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	No
	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 Other Professional Services Expenses Not Listed

Professional	Services Costs	Description	
	Electrical Mechanical Structural Engineers	Designs for transmitter and load cooling, switch design, suspending lines, switches, etc.	

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	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		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 Not Listed

Expenses Information not provided.

Transmitters

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXT-80	\$2,305,000.00	\$1,996,420.33		\$1,996,420.33	
Miscellaneous	\$92,000.00	\$92,000.00	Please see attached statement.	\$92,000.00	N/A
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$1,690,420.33	Please see Statement and Attachment 2.	\$1,690,420.33	N/A
Other Electrical Service: Install Electrical Power Distribution Including Panel Boards, Cable Tray, Cables, Recepacles, Transformers, and Grounding System.	\$72,500.00	\$72,500.00	Please see attached statement.	\$72,500.00	N/A
Install Transmitter, Racks	\$52,500.00	\$52,500.00	Please see attached statement.	\$52,500.00	N/A
Cooling Pumps, Etc.	\$89,000.00	\$89,000.00	Please see attached statement.	\$89,000.00	N/A

Auxiliary Transmitter ULXT-80	\$2,309,226.38	\$2,000,646.71		\$306,000.00	
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$1,690,420.33	Please see attached Statement and Attachment 2.	N/A	N/A
Other Electrical Service: Install Electrical Power Distribution Including Panel Boards, Cable Tray, Cables, Recepacles, Transformers, and Grounding System.	\$72,500.00	\$72,500.00	Please see attached statement.	\$72,500.00	N/A
Cooling Pumps, Etc.	\$89,000.00	\$89,000.00	Please see attached statement.	\$89,000.00	N/A
Electrical Accessories	\$4,226.38	\$4,226.38	Please see attached statement.	N/A	N/A
Install Transmitter, Racks	\$52,500.00	\$52,500.00	Please see attached statement.	\$52,500.00	N/A
Miscellaneous	\$92,000.00	\$92,000.00	Please see attached statement.	\$92,000.00	N/A
Auxiliary Transmitter ULXT-80	\$2,285,475.00	\$606,861.17		\$0.00	

UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	\$1,999,000.00	\$322,986.17	Please see attached statement.	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Other Building Addition Size: 1500.0	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Transmitter Installation	\$223,875.00	\$223,875.00	Please see attached statement.	N/A	N/A
Sub-total	\$6,899,701.38	\$4,603,928.21	N/A	\$2,302,420.33	N/A
Total for all systems	\$8,279,458.38	\$5,509,093.21	N/A	\$2,428,321.58	N/A

Actual Information Description	File Name	
Miscellaneous		
	Component Description:	Electrical
		contractor costs
		divided as
		explained in
		Statement.
	Amount:	\$92,000.00

UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Component Description:	1/3 Downpayment for Primary Transmitter.
	Amount:	\$563,473.44
	Component Description:	Final Payment for WCBS-TV Primary Transmitter.
	Amount:	\$1,126,946.89
Other Electrical Service: Install Electrical Power		
Distribution Including Panel	Component Description:	Electrical Contractor costs
Boards, Cable Tray,		divided as
Cables, Recepacies,		described in
Transformers, and Grounding System.		Statement.
Grounding System.	Amount:	\$67,750.00
	Component Description:	Electrical
		Contractor costs
		divided as
		described in
	Amount:	Statement. \$4,750.00
Install Transmitter, Racks		
	Component Description:	Electrical
		Contractor costs
		divided as
		described in
	Amount:	Statement. \$49,250.00
	Amount.	φ49,230.00
	Component Description:	Electrical
		Contractor costs
		divided as described in
		Statement.
		oracomonic.

Cooling Pumps, Etc.	Component Description: Amount:	Electrical Contractor costs divided as described in Statement. \$89,000.00
UHF - Liquid Cooled Solid State Transmitter 68.5 - 75 kW	Information not provided.	
Other Electrical Service: Install Electrical Power Distribution Including Panel Boards, Cable Tray, Cables, Recepacles, Transformers, and Grounding System.	Component Description: Amount:	Electrical Contractor costs divided as described in Statement. \$72,500.00
Cooling Pumps, Etc.	Component Description: Amount:	Electrical Contractor costs divided as described in Statement. \$14,300.00
	Component Description: Amount:	Electrical Contractor costs divided as described in Statement. \$74,700.00
Electrical Accessories	Information not provided.	

Install Transmitter, Racks		
	Component Description:	Electrical
		Contractor costs
		divided as
		described in
	Amount:	Statement.
	Amount:	\$52,500.00
Miscellaneous		
	Component Description:	Electrical
		Contractor costs
		divided as
		described in
		Statement.
	Amount:	\$92,000.00
UHF - Liquid Cooled Solid	Information not provided.	
State Transmitter 68.5 - 75 kW		
Service entrance 3 phase	Information not provided.	
/800 amp/208 volt		
Switchgear - industrial 800	Information not provided.	
amp		
Other Building Addition	Information not provided.	
Size: 1500.0		
Transmitter Installation	Information not provided.	

Antennas

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna PEP40E	\$90,930.00	\$86,400.00		\$0.00	
Adding a module to existing combiner (without antenna)	\$84,200.00	\$80,000.00	N/A	N/A	N/A
UHF - High Power Top Mount Five Station broadband panel antenna elliptically or circularly polarized	\$0.00	\$0.00	Using Existing Antenna.	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Auxiliary Antenna TUD C5SP- 10/34U-2-B	\$84,200.00	\$80,000.00		\$0.00	
UHF - High Power Top Mount Five Station broadband panel antenna horizontally polarized	\$0.00	\$0.00	Using Existing Antenna.	N/A	N/A

Adding a module to existing combiner (without antenna)	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Sub-total	\$175,130.00	\$166,400.00	N/A	\$0.00	N/A
Total for all systems	\$8,279,458.38	\$5,509,093.21	N/A	\$2,428,321.58	N/A

Information not provided.

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
Interim Transmission Line	\$131,670.00	\$180,918.00		\$90,459.00	
Rigid Transmission Line - copper, 8 3 /16" broadband	\$131,670.00	\$180,918.00	Replace Widelity Cost with Actual Cost. See Attachment 17.	\$90,459.00	N/A
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Auxiliary Transmission Line	\$13,130.00	\$12,480.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$13,130.00	\$12,480.00	N/A	N/A	N/A
Sub-total	\$144,800.00	\$193,398.00	N/A	\$90,459.00	N/A
Total for all systems	\$8,279,458.38	\$5,509,093.21	N/A	\$2,428,321.58	N/A

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 8 3/16" broadband	Component Description:	Interim
		Transmission Line
		50% Down
		Payment.
	Amount:	\$90,459.00
Rigid Transmission Line - copper, 6 1/8"	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	Actual Cost Justification
Primary Tower BTWR	\$528,000.00	\$107,000.00		\$9,935.95	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	Using Existing Antenna.	N/A	N/A
Install Transmission Line	\$107,000.00	\$107,000.00	See Attachment 6, Schedule D, Item 4.	\$9,935.95	N/A
Auxiliary Tower LTOWER	\$84,200.00	\$0.00		\$0.00	
Short Tower (less than 500')	\$84,200.00	\$0.00	Using Existing Antenna.	N/A	N/A
Sub-total	\$612,200.00	\$107,000.00	N/A	\$9,935.95	N/A
Total for all systems	\$8,279,458.38	\$5,509,093.21	N/A	\$2,428,321.58	N/A

Actual Information Description	File Name
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.

Install Transmission Line		
	Component Description:	Electrical
		Contractor costs
		divided as
		described in
		Statement.
	Amount:	\$9,935.95
Short Tower (less than 500')	Information not provided.	

Outside Professional Services

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$127,712.00	\$123,542.00		\$2,875.00	
Electrical Mechanical Structural Engineers	\$44,542.00	\$44,542.00	Please see Attachment 25.	\$0.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	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

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	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	\$1,775.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,100.00	N/A
Project management of the transition	\$39,500.00	\$37,500.00	N/A	N/A	N/A
Sub-total	\$127,712.00	\$123,542.00	N/A	\$2,875.00	N/A
Total for all systems	\$8,279,458.38	\$5,509,093.21	N/A	\$2,428,321.58	N/A

Description	File Name	
Electrical Mechanical Structural Engineers	Component Description:	Engineering Wo Due to Transmi Site Design Refinements.
	Amount:	\$44,542.00
RF Exposure Measurements	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.	
Address transition timing and coordination issues w/ other stations and wireless	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	Component Description:	Prepare Engineering Section of FCC Application.
	Amount:	\$1,775.00

Perform engineering study for new channel assignment and antenna development	Component Description:	Preliminary Channel Interference Stud - April 2017
	Amount:	\$550.00
	Component Description:	Redo Channel Interference Stud using New OET
	Amount:	TVStudy software \$550.00
Project management of the transition	Information not provided.	

Other Expenses

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$228,985.00	\$228,425.00		\$22,631.30	
Disposal Costs (for equipment and other waste, net of any salvage value)	\$186,100.00	\$186,100.00	Please see attached statement.	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Local Zoning	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$22,631.30	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$228,985.00	\$228,425.00	N/A	\$22,631.30	N/A

Actual Information Description	File Name	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	Information not provided.	
Local Zoning	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Amount:	Transmission Line Delivery \$21,661.30
	Component Description: Amount:	Delivery - Distilled Water \$970.00
MVPD Notification of Channel Change	Information not provided.	

Cost Information	Grand Total					
		Predetermined Cost Estimate	Estimated Cost	Actual Cost		
	Total for all systems	\$8,279,458.38	\$5,509,093.21	\$2,428,321.58		

Reimbursem	enrestatus	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. 	
		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).
- 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.

I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s)Andrew J Siegel Assistant Secretary	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.	
01/12/2018	an authorized representative of the above- named applicant for the Authorization(s)	Siegel Assistant Secretary

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).
- 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.

	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 au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) fied above.	Andrew J Siegel Assistant Secretary
		01/12/2018

Attachments