

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 74112 Service: DTV Call WTOG Channel: 19 (UHF)

Sign:

0000027117

Number:

ID:

File

FRN: **0028930774** Date **05/08**

Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CBS OPERATIONS INC. Doing Business As: CBS OPERATIONS INC.	Daniel G. Ryson 1725 DESALES ST NW SUITE 501 WASHINGTON, DC 20036 United States	+1 (202) 457-4505	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 CBS	Daniel G. Ryson 1725 DeSales Street NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4074	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	Temporarily move to an interim site with a broadband antenna. Install a broadband transmitter capable of operating on pre and post transition channels for use when present site is rebuilt with new antenna, transmission line, and transmitter equipment.

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	DCX
	Year	2001
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	50 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-80
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50.6 kW
	Justification for New Transmitter	Comark will not re-tune any IOT transmitter (see Attachment 1). Proposed "upgraded" transmitter (see Attachment 15) costs more than "non- upgraded" transmitter (see Attachment 3) which is basis for reimbursement.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes

Power 500 kVA		Power	500 kVA
Size 2 inches Length 200.0 feet Other Electrical Service Yes Description 100 linear feet of 4-inch conduit. HVAC Service Does the replacement transmitter require HVAC Service? Type Cooling Only Size 15 tons Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size 3200.0 square feet Channel 14 Costs Is a channel 14 Mask Filer needed? N/A			
Length Other Electrical Service Pessoription Description 100 linear feet of 4-inch conduit. HVAC Service Does the replacement transmitter require HVAC Service? Type Cooling Only Size 15 tons Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size Size Size Size Size Other Size N/A Ves Channel 14 Costs Is an RF Consulting Engineer needed? N/A N/A		Rigid Conduit and Wiring	Yes
Other Electrical Service Pescription 100 linear feet of 4-inch conduit. HVAC Service Does the replacement transmitter require HVAC Service? Type Cooling Only Size 15 tons Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size Channel 14 Costs Is an RF Consulting Engineer needed? N/A N/A		Size	2 inches
Description Description 100 linear feet of 4-inch conduit.		Length	200.0 feet
HVAC Service Does the replacement transmitter require HVAC Service? Type Cooling Only Size Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Size Size Size Size Addition, modification, other leashold improvement? Size Size Size Size Size Size Size Auguare feet Channel 14 Costs Is an RF Consulting Engineer needed? N/A		Other Electrical Service	Yes
HVAC Service? Type Cooling Only Size Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? Size 3200.0 square feet Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is a channel 14 Mask Filer needed? N/A		Description	feet of 4- inch
Size 15 tons Other Size N/A Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? Size 3200.0 square feet Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is a channel 14 Mask Filer needed? N/A			Yes
Other Size Transmitter Building Addition/Modification or Leasehold Improvement Does the Transmitter Building require an addition, modification, other leashold improvement? Size 3200.0 square feet Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is a channel 14 Mask Filer needed? N/A		Туре	_
Transmitter Building Addition/Modification or Leasehold Improvement Size Siz		Size	15 tons
Addition/Modification or Leasehold Improvement Size Size Size 3200.0 square feet Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is a channel 14 Mask Filer needed? N/A		Other Size	N/A
Channel 14 Costs Is an RF Consulting Engineer needed? N/A Is a channel 14 Mask Filer needed? N/A	Addition/Modification or	addition, modification, other leashold	Yes
Is a channel 14 Mask Filer needed? N/A		Size	
	Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
Is additional field engineering time 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		Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Transmitter Information not provided.

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30 kW
	Justification for New Transmitter	Interim transmitter and site required while main tower is reinforced and main site is rebuilt. Broadband PAs specified. See Statement 2.

Interim Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA

	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	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?	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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim

Other Transmitter Cost Not Listed

Transmitter Information not provided.

Antennas

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

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Emergency Only
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this 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	Side Mount
	Antenna position in stack	Not in Stack
	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)	298.0 kW

Manufacturer	
Model	SW-16
Year	1988

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary (Post Transition)
	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	Side 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)	298.0 kW
	Manufacturer	

Model	TFU- 24DSC-R O4
Year	2019
Justification for New Antenna	Existing auxiliary antenna is narrowband and not suitable for use on channel 19.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power 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?	

Other Antenna Cost Not Listed

Information not provided.

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	Bottom
	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)	550.0 kW

Manufacturer	
Model	TFU-30E
Year	1987

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)	700.0 kW
	Manufacturer	

Model	TFU-27ETT /VP-R O6
Year	2019
Justification for New Antenna	Present owned antenna is narrowband and will not work on post- transition channel.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	8 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
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Other Antenna Cost Not Listed

Name	Description
Mounting Adapter	Five foot Mounting Adapter allows antenna to mount onto tower top plate.

Interim Antenna

New Antenna Costs

escription of Use nange Type vnership vner antenna shared? antenna directional?	Interim N/A Rent Temporary Leased Florida West Coast Public Broadcasting, Inc. No
nange Type vnership vner antenna shared?	Rent Temporary Leased Florida West Coast Public Broadcasting, Inc. No
vnership vner antenna shared?	Temporary Leased Florida West Coast Public Broadcasting, Inc. No
vner antenna shared?	Florida West Coast Public Broadcasting, Inc.
antenna shared?	Coast Public Broadcasting, Inc.
antenna directional?	No
Il antenna be located on or in close oximity to an antenna farm?	No
ass	Full Power
ounting	Top Mount
itenna position in stack	Bottom
olarization	Horizontal
ре	Broadband Panel
umber of Stations Supported	1
ımber of Panels/Bays	12
wer Limit	470.00 MHz
pper Limit	713.00 MHz
esign power capacity in use	0.0 %
her Antenna Type	N/A
RP: (Effective Radiated Power)	417.0 kW
anufacturer	
	eximity to an antenna farm? eass counting tenna position in stack clarization pe comber of Stations Supported comber of Panels/Bays cover Limit coper Limit coper Limit coper Antenna Type RP: (Effective Radiated Power)

Model	TUP-05-12- 60-1
Year	2006
Justification for New Antenna	Renting Existing Antenna.

Interim Antenna

Other Antenna Costs

Section	Question	Response
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 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

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Test Adapter	Test adapter for detailed measurement of interim antenna and line.

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

Auxiliary	Add Transmission Line		
Transmissio	n Line Section	Question	Response
	Existing Transmission Line Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	Backup
		Ownership	Owned
		Owner	N/A
Existing Transmission Line Manufacturer and Type		Site	N/A
		Is this transmission currently shared with any other stations?	No
		Is Transmission Line in operating condition?	Yes
		Manufacturer	
		Туре	Rigid
		Diameter	8 3/16 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
	Length	1000 feet per run	

New Transmission Line

Auxiliary Transmiss

section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Backup
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Туре	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1000 feet per run
	Justification for New Transmission Line	Please see Statement 2.

Other Transmission Line Expenses Not Listed

Auxiliary Other Transmission
Transmission Loine tion not provided.

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	Waveguide
	Diameter	N/A
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1492 feet per run

New Transmission Line

Primary	New Transmission Line			
Transmissio	on 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	8 3/16 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	1540 feet per run	
		Justification for New Transmission Line	Present waveguide will not work on post- transition channel and must be removed to reduce tower windloading. (Line Length reduced from 1600 to 1540 feet after 3/2019 site survey)	

Other Transmission Line Expenses Not Listed

Primary
Transmission of provided.

Interim

New Transmission Line

Transmissio	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	6 1/8 inches
		Segment Length	20'
		Other Segment Length	
		Number of parallel runs	1
		Length	100 feet per run
		Justification for New Transmission Line	Required for interconnect to interim antenna.

Interim Other Transmission Line Expenses Not Listed

Transmission loine tion not provided.

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

Add 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?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	No
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1030952
Coordinates (NAD83 (Latitude (NAD83)	27° 49' 47.1" N-
North American Datum of 1983))	Longitude (NAD83)	082° 15' 58.3" W-
	Overall Structure Height	1574.13 feet
	Support Structure Height	1451.75 feet
	Ground Elevation Above Mean Sea Level (AMSL)	74.80 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers LLC
Date Constructed	02/01/2018

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:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Permit Packages	Construction drawings for tower, ground and building. Required for local permits.

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	No
	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	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	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	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 Services Expenses Not Listed
Professional Services Costsided.

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	No
	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?	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.

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 Cos Justificatio
Interim Transmitter ULXTE-60	\$1,125,250.00	\$1,135,082.22		\$681,468.47	
UHF inside RF system including switching	\$147,500.00	\$143,500.00	Includes Attachment 21 Item C. There will also be some labor involved to install switching and transmission line.	\$41,065.29	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$9,007.62	See Attachment 21, Item D	\$6,543.38	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$977,574.60	Includes Attachment 21 Items A,B, E and change orders shown in Attachment 22. Does not include RF Accessories, Step-Down transformer, and shipping shown elsewhere.	\$633,859.80	N/A

Primary Transmitter ULXTED-80	\$1,645,510.00	\$1,566,190.00		\$430,923.86	
Other Building Addition Size: 3200.0	\$91,200.00	\$91,200.00	2 story building with tiltup walls to match existing broadcast facility. Includes galvanized stairs, steel doors, and concrete block walls for separate tenant suites. See Attachments 5 and 6.	N/A	N/A
15 Ton system	\$55,800.00	\$42,400.00	See Attachment 5.	N/A	N/A
Other Electrical Service: 100 linear feet of 4- inch conduit.	\$3,840.00	\$3,840.00	100' L/F of 4" conduit and larger conductor to adequately bring an additional 500 KVA power needed for the new transmitters, HVAC, Air handlers, and house power. See Attachment 5.	N/A	N/A

2" Rigid	\$5,200.00	\$2,000.00	This cost	N/A	N/A
Conduit and			includes 200 L		
Wiring			/F of 2" conduit		
(Cost per			and conductor		
foot)			to adequately		
			supply the		
			HVAC,		
			Airhandlers and		
			House power.		
			The existing		
			power supply is		
			inadequate for		
			the additional		
			power		
			demands of the		
			new repack		
			equipment. See		
			Attachment 5.		
Transformer	\$48,400.00	\$18,400.00	Install 500 KVA	N/A	N/A
3 phase			transformer to		
/480v - 500			support		
KVA			transmitter,		
			heat		
			exchangers		
			and other		
			equipment on		
			the new repack		
			frequency into		
			the broadband		
			trie broadbarid		
			antenna. See		

Switchgear - industrial 800 amp	\$38,200.00	\$14,400.00	New Switchgear required accommodating additional repack equipment. This switch is used with the addition of the 500 KVA transformer installation. This space does lacks required power for multiple transmitters. See Attachment 6.	N/A	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$5,480.00	Pro rata cost. See Attachment 5.	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 50.6 kW	\$1,388,470.00	\$1,388,470.00	See Statement 2 and Attachment 3. Comparable IOT pricing is less expensive than solid state transmitter being proposed.	\$430,923.86	N/A
Sub-total	\$2,770,760.00	\$2,701,272.22	N/A	\$1,112,392.33	N/A
Total for all systems	\$5,492,989.11	\$4,685,853.83	N/A	\$1,397,271.91	N/A

Actual Information		
Description	File Name	

UHF inside RF system		
including switching	Component Description:	Invoice is for
		transmitter down
		payment originally
		based on
		Attachment 21
		items A, B, C, D,
		E. The portion
		shown here is the
		split appropriate
		for item C only.
	Amount:	\$20,952.66
		transmitter down payment originally based on Attachment 21 items A, B, C, D, E. The portion shown here is the split appropriate
		for item C only.
	Amount:	\$20,112.63
3" Rigid Conduit and Wiring	Information not provided.	

Transformer 3 phase/480v -
150 KVA

Component Description: Invoice is for

transmitter down payment originally

based on

Attachment 21 items A, B, C, D,

E. The portion shown here is the

split appropriate

for items D only.

(Fractional cent

rounded up to

assure split cost equals total

invoice.)

Amount: \$3,338.62

Component Description: Invoice is for

transmitter down

payment originally

based on

Attachment 21 items A, B, C, D,

потпо т, в, о, в,

E. The portion

shown here is the

split appropriate

for items D only.

Amount: \$3,204.76

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW		
State Transmitter 21 - 31 kW	Component Description: Amount:	Invoice is for transmitter down payment originally based on Attachment 21 items A, B, C, D, E. The portion shown here is the split appropriate for items A&B only. \$310,446.81
	Component Description:	Invoice is for transmitter down payment originally
		based on Attachment 21 items A, B, C, D, E. The portion shown here is the split appropriate for items A&B only.
Others Dividing Addition	Amount:	\$323,412.99
Other Building Addition Size: 3200.0	Information not provided.	
15 Ton system	Information not provided.	
Other Electrical Service: 100 linear feet of 4-inch conduit.	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 500 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
Service entrance 3 phase	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 50.6 kW

Component Description: Invoice is for main

transmitter down payment originally

based on

Attachment 2, which has since been superseded by Attachment

2A. See

Statement 2.

Amount: \$430,923.86

Antennas

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost
Interim Antenna TUP-05-12- 60-1	\$374,144.11	\$123,599.11		\$11,099.11	
Test Adapter	\$4,914.11	\$4,914.11	See Attachment 30 for quote. Also Includes shipping shown in invoice 237003, Attachment 33B.	\$4,914.11	Includes shipping.
Interim antenna rental and installation - Cost will depend on antenna size and height and /or complexity of tower.	\$115,500.00	\$112,500.00	Cost is preliminary. Still being negotiated.	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$0.00	Renting an existing but unused antenna.	N/A	N/A

Sweep test of existing antenna	\$6,730.00	\$6,185.00	Please see estimates in Attachment 34 (preliminary measurement) and Attachment 36 (final measurement).	\$6,185.00	N/A
Primary Antenna TFU-27ETT /VP-R O6	\$337,280.00	\$243,078.00		\$109,385.10	
Mounting Adapter	\$25,800.00	\$25,800.00	See Attachment 13 Line Item 2	\$11,610.00	N/A
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$13,583.00	See Attachment 13 Line Item 3	\$6,112.35	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See Attachment 13 - Line item 24	\$2,880.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$197,295.00	See Attachment 13 Line 1 minus \$29,175 for non- reimbursable V-Pol contribution.	\$88,782.75	N/A
Auxiliary Antenna TFU- 24DSC-R O4	\$269,180.00	\$144,575.00		\$3,275.00	

Side mount	\$23,150.00	\$16,425.00	See	N/A	N/A
brackets			Attachment 16		
for high			Line Item 3.		
power			This is for the		
antennas			comparable		
(if not			Dielectric TFU-		
included in			16DSC-R O4		
antenna			antenna, not		
base cost)			the upgraded		
base cost)			Dielectric TFU-		
			24DSC-R O4		
			antenna		
			(Attachment		
			19) that we're		
			installing.		
Elbow	\$12,300.00	\$9,150.00	See	N/A	N/A
complex,			Attachment 16		
single			Line Item 4.		
channel, at			This is for the		
antenna			comparable		
input, per 6			Dielectric TFU-		
1/8.			16DSC-R 04		
feedline (if					
			antenna, not		
needed)			the upgraded		
			Dielectric TFU-		
			24DSC-R O4		
			antenna		
			(Attachment		
			19) that we're		
			installing.		
Sweep test	\$6,730.00	\$3,275.00	Auxiliary and	\$3,275.00	N/A
of existing	. ,	. ,	Interim	. ,	
antenna			antenna were		
antonna			measured at		
			the same time		
			SO		
			measurement		
			cost was split		
			50/50 between		
			cost		
			categories.		
			=		
			See		
			See Attachment		

UHF -	\$227,000.00	\$115,725.00	See	N/A	N/A
Lower			Attachment 16		
Power			Line Item 1.		
Side			This is for the		
Mount,			comparable		
One			Dielectric TFU-		
station			16DSC-R O4		
antenna			H-Pol antenna,		
200-500			not the		
kW,			upgraded (due		
elliptically			to higher gain)		
or			Dielectric TFU-		
circularly			24DSC-R 04		
polarized			antenna		
			(Attachment		
			19) that we're		
			installing.		
Sub-total	\$980,604.11	\$511,252.11	N/A	\$123,759.21	N/A
Total for all systems	\$5,492,989.11	\$4,685,853.83	N/A	\$1,397,271.91	N/A

Actual Information Description	File Name	
Test Adapter	Component Description: Amount:	Test adapter for 7-inch line. Required to determine that WEDU antenna and transmission line are viable and do not need to be replaced. \$4,914.11
Interim antenna rental and installation - Cost will depend on antenna size and height and/or complexity of tower.	Information not provided.	

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Information not provided.	
Sweep test of existing		
antenna	Component Description:	See Attachment
		34 for quotation
	Amount:	\$2,910.00
	Component Description:	Interim and Aux antenna and line were measured in the same trip so
		measurement cost was divided
		between cost categories. (Note:
		The company
		name includes an
		ampersand that
		Form won't accept.)
	Amount:	\$3,275.00
Mounting Adapter		
	Component Description:	Mounting Adapter Down Payment. See Exhibit 13 for
		quote.
	Amount:	\$11,610.00
Elbow complex, single		
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if	Component Description:	Elbow Complex
channel, at antenna input,	Component Description:	down payment.
channel, at antenna input, per 8 3/16. feedline (if	Component Description:	

antenna	Component Description: Amount:	Sweep Test down payment. See Attachment 13 for quote. \$2,880.00
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Primary Antenna Minus V-Pol down payment. See Attachment 13 for quote. \$88,782.75
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Component Description: Amount:	Interim and Aux antenna and line were measured in the same trip so measurement cost was divided between cost categories. (Note: The company name includes an ampersand that Form won't accept.) \$3,275.00
UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	Information not provided.	

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	\$20,200.00	\$19,700.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$20,200.00	\$19,700.00	N/A	N/A	N/A
Primary Transmission Line	\$534,380.00	\$338,085.00		\$152,138.25	
Rigid Transmission Line - copper, 8 3 /16"	\$534,380.00	\$338,085.00	See Attachment 13, Line Item 4 and Attachment 39.	\$152,138.25	N/A
Auxiliary Transmission Line	\$347,000.00	\$338,000.00		\$0.00	
Rigid Transmission Line - copper, 8 3 /16"	\$347,000.00	\$338,000.00	Widelity Cost Catalog Price	N/A	N/A
Sub-total	\$901,580.00	\$695,785.00	N/A	\$152,138.25	N/A
Total for all systems	\$5,492,989.11	\$4,685,853.83	N/A	\$1,397,271.91	N/A

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 6 1/8"	Information not provided.	
Rigid Transmission Line - copper, 8 3/16"	Component Description:	Primary
		Transmission Line.
		See Attachments
		13 and 39 for
		quotes.
	Amount:	\$152,138.25
Rigid Transmission Line - copper, 8 3/16"	Information not provided.	

Tower Equipment and Rigging Costs

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
Primary Tower GTOWER	\$667,200.00	\$649,500.00		\$0.00	
Tall Tower (greater than 500')	\$210,500.00	\$205,000.00	Cost Catalog Pricing.	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$409,500.00	Cost Catalog Pricing.	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,600.00	Cost Catalog Pricing.	N/A	N/A
Tower Permit Packages	\$9,400.00	\$9,400.00	Generate construction drawings of tower, ground, and building for local permits. See Attachments 5 and 6.	N/A	N/A
Sub-total	\$667,200.00	\$649,500.00	N/A	\$0.00	N/A
Total for all systems	\$5,492,989.11	\$4,685,853.83	N/A	\$1,397,271.91	N/A

Information not provided.

Outside Professional Services

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos
Outside Professional Services	\$98,365.00	\$59,879.50		\$8,982.12	
RF Exposure Measurements	\$21,050.00	\$3,750.00	RF Exposure measurements to demonstrate RF fields are less than FCC limits. See Attachment 5.	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$167.00	See Attachment 5.	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$1,250.00	See Attachment 5.	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$1,350.00	See Attachment 5.	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,050.00	Cost Catalog Pricing.	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,312.50	Additional engineering work and Construction Permit modification was required when initial site became unavailable. See Exhibits 20, 27, and 29.	\$3,312.50	Unexpecte loss of main and interim sit See Statemer 2.
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$5,000.00	See Attachment 5.	\$3,537.50	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 sufficient internal resources.	\$2,132.12	N/A
Sub-total	\$98,365.00	\$59,879.50	See also Attachment 5.	\$8,982.12	N/A
Total for all systems	\$5,492,989.11	\$4,685,853.83	N/A	\$1,397,271.91	N/A

Actual Information Description	File Name
RF Exposure Measurements	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
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	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application

Prepare CP **Component Description:**

> Engineering for Riverview-1 site.

\$1,387.50 Amount:

Component Description: Preliminary

> Engineering for CP at Riverview-2

site.

Amount: \$1,125.00

Component Description: Complete

> Engineering for CP Mod back to Riverview-2 site.

Amount: \$800.00

Perform engineering study for new channel assignment and antenna development

Component Description: Preliminary

> evaluation of WEDU site suitability.

Amount: \$725.00

Component Description: Evaluate viability

of existing

Riverview-2 Site.

Amount: \$1,062.50

Component Description: Study suitability of

> WEDU antenna as primary. See Statement 2.

\$812.50 Amount:

Component Description: Evaluate ATC

> Riverview-1 antenna and site.

\$937.50

Amount:

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Project management of the transition	Component Description:	Project Management.
	Amount:	\$2,132.12

Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$74,480.00	\$68,165.00		\$0.00	
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$22,000.00	\$22,000.00	See Attachments 2A and Exhibit 21 (\$11,000 each).	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$30,000.00	\$30,000.00	Assorted disposal cost for equipment and other waste. For example, see Attachments 10 and 11.	N/A	N/A
Non-zoning permits	\$4,700.00	\$4,700.00	N/A	N/A	N/A
Local Zoning	\$4,700.00	\$4,700.00	N/A	N/A	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
DTV Medical Facility Notification	\$11,550.00	\$5,250.00	See Attachment 12.	N/A	N/A
Sub-total	\$74,480.00	\$68,165.00	N/A	\$0.00	N/A
Total for all systems	\$5,492,989.11	\$4,685,853.83	N/A	\$1,397,271.91	N/A

Information not provided.

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,492,989.11	\$4,685,853.83	\$1,397,271.91

Reimburseme	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

05/08/2019

Section Question Response

Submission of Actual Cost Documentation Statements

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

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above.

Attachments