

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 6900 Service: DTV Call WUPA Channel: 36 (UHF)

ID:

Sign:

File **0000027041**

Number:

FRN: **0003474871** Date **09/10**

Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
ATLANTA TELEVISION STATION WUPA INC. Doing Business As: ATLANTA TELEVISION STATION WUPA INC.	Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States	+1 (202) 457- 4505	dryson@cbs.	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. Nass , Ryson . CBS	Daniel G. Ryson 1725 DeSales St. 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	ATS will install new broadband ant at interim site. Facility will move to interim site. Current main site ant and tx line will be removed. ATS will install new broadband ant at main site. Facility will move from interim site to main site.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	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	Rhode and Schwarz

Model	NV8303
Year	2001
Туре	Solid State
Solid State Cooling	Air Cooled
Solid State Power capacity	1.5 kW

Auxiliary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	1.5 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

Auxiliary Transmitter

Other Transmitter Costs

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	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

Auxiliary Transmitter Unformation not provided.

Other Transmitter Cost Not Listed

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	2001
	Туре	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	63 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	ULXTE-120
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	75.1 kW
	Justification for New Transmitter	Cannot retune current IOT transmitter. Replacement IOT transmitter will exceed cost of replacement solid state.

Primary 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	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches

	Length	300.0 feet
	Other Electrical Service	Yes
	Description	Electrical work. Includes labor and materials not already listed.
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**

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-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	35.4 kW
	Justification for New Transmitter	Facility must move to interim site for an expended period of time. Revised gains and losses at interim site required an increase in transmitter size to ULXTE-72 (35.4 kW @ Ch. 43) to replicate licensed WUPA coverage. See May 2018 Statement.

Interim Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	400.0 feet
	Other Electrical Service	Yes
	Description	Electrical work including labor and materials not listed elsewhere. See Exhibit 7
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	No
	to support this interim transmitter?	

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description
Transmitter Control	Remote Control and Monitoring of Interim Transmitter and site.
Unistrut Frame Kit	Unistrut Frame Kit. Required to support Heat Exchangers.

Antennas

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

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Lease 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)	1000.0 kW
	Manufacturer	

Model	TFU- 32GTH-R
Year	2002

New Antenna Costs

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?	Yes
	Ownership	Leased
	Owner	American Tower
	Is antenna shared?	Yes
	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	Тор
	Polarization	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	4
	Number of Panels/Bays	99
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	14 bay, 4 around,, 56 ele total
Year	2018
Justification for New Antenna	Channel Change

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	4
	Frequencies of channels supported	Upper and lower frequency
	Frequency	470.0 MHz - 608.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	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

Other Antenna Cost Not Listed

Name	Description
Dielectric Combiner Installation	installation of combiner

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Ownership	Leased
	Owner	American Tower
	Is antenna shared?	Yes
	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 Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Elliptical
	Туре	Broadband Panel
	Number of Stations Supported	5
	Number of Panels/Bays	12
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	100.0 kW
	Manufacturer	
	Model	PEPL48D- C170-2-6
	Year	2018

Justification for New Antenna	Needed for
	transition
	logistics

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	5
	Frequencies of channels supported	Upper and lower frequency
	Frequency	470.0 MHz - 608.0 MHz
	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	8 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

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
	2000

	llation

Installation of interim site combiner.

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

Existing Transmission Line

Primary Transmission Line,

Existing Transmission	Т

Section	Question	Response
Existing Transmission Line Description	Type of change	Lease 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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Туре	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1275 feet per run

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

Facility ID	Call Sign
23960	WSB-TV
48813	WUVG-DT
64033	WPCH-TV

Primary Transmission

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Lease 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	2
	Length	1275 feet per run
	Justification for New Transmission Line	Line to be re-furbished and connectors replaced.

Primary Transmission

Other Transmission Line Expenses Not Listed

on Line Name	Description
TX line reducers	(2) 7-3/16" to 6-1/8" reducers
Gas Blocks	gas blocks
Interconnect tx line main	50' of 7-3/16" for connect to combiner.
Interconnect tx line aux	150' of 6-1/8" line for connect to combiner.

Interim

New Transmission Line

Transmission Liph New Cost	n section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Lease New
		Туре	Rigid
		Diameter	8 3/16 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	1
		Length	1225 feet per run
		Justification for New Transmission Line	For interim site 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

Auxiliary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Interim Tower
	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?	Yes
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1206253
Coordinates (NAD83 (Latitude (NAD83)	33° 44' 40.9" N-
North American Datum of 1983))	Longitude (NAD83)	084° 21' 35.7" W-
	Overall Structure Height	1080.04 feet
	Support Structure Height	956.03 feet
	Ground Elevation Above Mean Sea Level (AMSL)	969.15 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC
Date Constructed	05/14/2002

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
64033	WPCH-TV	DTV
68058	WHSG-TV	DTV
23959	WRAS	FM
55108	WIRE-CD	DTV
48813	WUVG-DT	DTV
168094	WYGA-CD	DTV

Auxiliary Tower

Tower Modification Costs

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

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Name	Description
Interim Tower Mapping	Structural tower mapping to ensure the proper structural information is relayed to engineering for the rigorous structural assessment for the proposed repack equipment.
Interim Tower Rent	Flat Rate Rental for Interim Use of the ATC Chester Avenue tower. Required while Primary Tower without disruption of the WUPA on-air signal. See Attachment 7A Section 1-B-1.

Primary Tower

Existing 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?	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	1223132
Coordinates (NAD83 (North American Datum	Latitude (NAD83)	33° 48' 26.4" N-
of 1983))	Longitude (NAD83)	084° 20' 21.5" W-
	Overall Structure Height	1182.07 feet
	Support Structure Height	1056.09 feet
	Ground Elevation Above Mean Sea Level (AMSL)	867.12 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	American Tower, LLC
	Date Constructed	03/27/2002

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
11675	WCLK	FM
73161	WKHX-FM	FM
48813	WUVG-DT	DTV
39735	WSTT	AM
54585	WRFG	FM
64033	WPCH-TV	DTV
72120	WGCL-TV	DTV
73345	WWWQ	FM
29735	WUBL	FM
23960	WSB-TV	DTV
22819	WATL	DTV
68058	WHSG-TV	DTV
13805	WZGC	FM
11275	WWPW	FM

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Primary Tower Mapping	Structural tower mapping to ensure the proper structural information is relayed to engineering for the rigorous structural assessment for the proposed repack equipment. See Attachment 6A.
Site Security	Site security for installation and storage of Transmission line and materials for 9 days X 12 hours. These materials are a high risk of theft due to the material makeup such as copper, brass and aluminum.
Tower Construction Management	(80) hours on Modification project management and RF installation project management for a total of twenty (30) days. See Attachment 6A Section 3-D-1.

Outside Professional

Section	Question	Response
I Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Station does not have adequate staff to handle this internally.
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	No
	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	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	No
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
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
	Justification	N/A

Outside Professional

Other Professional Services Expenses Not Listed

I Services Costs	Description	
RF System Tests	RF system testing of the primary and interim combiners to ensure all frequencies are tuned for optimal performance. See Attachments 6 and 7 section 1-B-1.	

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	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	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?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
ATC Proj Mgmt	Tower construction project management by ATC. Site coordinations.
Interim site tx internal tx line	Install / modify feed line to combiner and test.
Main tx internal tx line	Install / modify feed line to combiner and test.
Site Coordination Meetings	Site coordination meetings with all broadcasters, contractors and vendors involved with the site project. See Attachments 6 and 7 section 1-B-1.
Address Transition Timing	Coordination and transition planning with all parties onsite and management of the timelines and schedules occurring during the repack. See Attachments 6 and 7 section 1-A-1.

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
Interim Transmitter ULXTE-72	\$1,606,176.80	\$1,484,954.35		\$1,357,754.35	
Transmitter Control	\$0.00	\$0.00	It is now understood that the FCC has deemed that transmitter controls are not a reimbursable expense.	\$0.00	Includes Shipping and 8% State Sales Tax. See quote provided as Attachment 13.
Other Electrical Service: Electrical work including labor and materials not listed elsewhere. See Exhibit 7	\$52,500.00	\$52,500.00	See Exhibit 7. (Note: Original 399 Filing reversed Primary and Interim Costs. This was corrected in a April, 2018 revision.)	\$0.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A

Liquid Cooled Mask Filter, Include Mask Filter, Include Mask Filter, Include Mask Filter, Install Install Challed Mask Filter, Install Challed Mask Filter, Install Challed Challe						
Conduit and Wirring (Cost per foot) Unistrut	Liquid Cooled Solid State Transmitter	\$1,473,000.00	\$1,355,677.55	Transmitter, Mask Filter, RF Accessories, Electrical, Installation & Proof, Tax, Shipping and Installation Parts. Actual shipping exceeded May 2018 estimate shown in Attachment	\$1,355,677.55	Total cost includes unanticipate installation parts (see Change Order Q81068) and actual freigh exceeded original estimate.
Frame Kit Attachment 25. Includes State Sales Tax. Primary Transmitter ULXTE-120 4" Rigid \$30,300.00 \$28,800.00 N/A N/A N/A Conduit and Wiring (Cost per foot) Transformer 3 phase /480v - 500	Conduit and Wiring (Cost per	\$40,400.00	\$38,400.00	N/A	N/A	N/A
Transmitter ULXTE-120 4" Rigid \$30,300.00 \$28,800.00 N/A N/A N/A Conduit and Wiring (Cost per foot) Transformer \$48,400.00 \$46,000.00 N/A N/A N/A 3 phase /480v - 500		\$2,076.80	\$2,076.80	Attachment 25. Includes State Sales	\$2,076.80	N/A
Conduit and Wiring (Cost per foot) Transformer \$48,400.00 \$46,000.00 N/A N/A N/A 3 phase /480v - 500	Transmitter	\$2,644,804.81	\$2,640,904.81		\$1,731,566.44	
3 phase /480v - 500	Conduit and Wiring (Cost per	\$30,300.00	\$28,800.00	N/A	N/A	N/A
NVA .	3 phase	\$48,400.00	\$46,000.00	N/A	N/A	N/A

UHF - Liquid Cooled	\$1,871,042.69	\$1,871,042.69	Present transmitter cannot be re-	\$1,084,004.32	N/A
Solid State			tuned per		
Transmitter			manufacturer.		
75.1 kW			Solid state		
70.1 800			transmitter		
			cost is less		
			than		
			replacement		
			IOT		
			transmitter.		
			Includes		
			Shipping,		
			Tax, and		
			Installation.		
			See quotes		
			for upgraded		
			ULXTE-120		
			and		
			comparable		
			ULXTE-100		
			Attachments		
			8E, 27, and		
Other	\$47,500.00	\$47,500.00	Electrical	N/A	N/A
Electrical			service		
Service:			required for		
Electrical			new		
work.			transmitter		
Includes			and		
labor and			transmitter		
materials			cooling		
not already			equipment.		
listed.			(Note:		
			Original 399		
			Filing		
			reversed		
			Primary and		
			Interim Costs.		
			This was		
			corrected in a		
			April, 2018		
			revision.)		

UHF - Liquid Cooled Solid State Transmitter 62.9 kW	\$647,562.12	\$647,562.12	***System Notice: Estimate adjusted and locked because line has been superseded. ***Present transmitter cannot be re- tuned per manufacturer. Solid state transmitter cost is less than replacement IOT transmitter. Includes Shipping, Tax, and Installation. See	\$647,562.12	N/A
Auxiliary Transmitter NV8303	\$108,230.00	\$2,800.00	2A.	\$0.00	
1.5 kW mask filter	\$3,030.00	\$2,800.00	N/A	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$0.00	N/A	N/A	N/A
Sub-total	\$4,359,211.61	\$4,128,659.16	N/A	\$3,089,320.79	N/A
Total for all systems	\$8,936,193.28	\$5,344,320.00	N/A	\$3,534,865.71	N/A

Actual Information		
Description	File Name	

Transmitter Control		
	Component Description:	Excludes \$1,200 Annual Support Contract at Primary Site which is not a Repack Related Expense. Adds Shipping not shown on original estimate, Attachment 13.
	Amount:	\$4,755.00
Other Electrical Service: Electrical work including labor and materials not listed elsewhere. See Exhibit 7	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	

JHF - Liquid Cooled Solid		
State Transmitter 35 - 50	Component Description:	Interim Transmitter
XVV		Down Payment.
		Please see May
		2018 Statement
		and Attachment
	A	5B.
	Amount:	\$379,273.63
	Component Description:	Interim transmitter
		progress payment.
		See May 2018
		Statement and
		Attachment 5B.
	Amount:	\$379,273.63
	Component Description:	Final invoice shows
	- Simponom Bookilphom	installation, proof,
		and freight. See
		Attachment 24.
	Amount:	\$96,349.43
	Component Description:	Interim Transmitter
		Invoice Three.
		Includes Various
		Installation parts.
		(See Change
		Order Q81068 in
		Attachment 23.)
	Amount:	\$500,780.86
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Unistrut Frame Kit		
	Component Description:	Unistrut Frame Kit
		for Transmitter
		Heat Exchangers.
		See Attachment 25.
	Amount:	\$2,076.80
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Information not provided.	
Component Description:	Invoice is for Primary Transmitter progress payment, including upgrades. Amount shown is for comparable transmitter and includes a recent change order. See Attachments 8E, 26, and 27.
Amount:	\$570,922.58
Component Description:	Progress Payment for Primary Transmitter. See Attachment 28.
Amount:	\$513,081.74
Information not provided.	
Component Description:	Primary Transmitter Down Payment. We are installing a model ULXTE-120 transmitter but seeking reimbursement for a comparable ULXTE-100 model. Quotes for both are in Attachment 8E. This invoice excludes tax and shipping.
	Amount: Component Description: Amount: Information not provided.

1.5 kW mask filter	Information not provided.
UHF and VHF - minor banding issues	Information not provided.

Cost Information

Antennas

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna PEPL48D- C170-2-6	\$196,675.00	\$115,395.00		\$86,546.25	
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$3,600.00	N/A	\$2,700.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$22,500.00	N/A	\$16,875.00	N/A
UHF - High Power Top Mount Five Station broadband panel antenna elliptically or circularly polarized	\$81,795.00	\$81,795.00	To accommodate move. See Attachment 7	\$61,346.25	N/A
Combiner Installation	\$5,000.00	\$5,000.00	See EXHIBIT	\$3,750.00	N/A
Sweep test of existing antenna	\$6,730.00	\$2,500.00	N/A	\$1,875.00	N/A

Primary Antenna 14 bay, 4 around,, 56 ele total	\$1,216,980.00	\$308,213.00		\$77,053.25	
Dielectric Combiner Installation	\$17,100.00	\$17,100.00	Cost includes removal of existing combiner. See Attachment 6B, Section 3-C-2.	\$4,275.00	N/A
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$18,000.00	See Attachment 6B, Section 3- C-2	\$4,500.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$66,000.00	See Attachment 6B Section 3- C-1	\$16,500.00	N/A
Sweep test of existing antenna	\$6,730.00	\$5,000.00	See Attachment 6B, Section 3- C-2	\$1,250.00	N/A
UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized	\$1,090,000.00	\$202,113.00	See Attachment 6B, Section 3B. This is WUPA's pro rata share.	\$50,528.25	N/A
Sub-total	\$1,413,655.00	\$423,608.00	N/A	\$163,599.50	N/A

Total for	\$8,936,193.28	\$5,344,320.00	N/A	\$3,534,865.71	N/A
all					
systems					

Actual Information		
Description	File Name	
Elbow complex, broadband, at antenna input, per 8 3/16.		
feedline (if needed)	Component Description:	Invoice is 50%
issumis (ii rissusu)		Down Payment for
		ATC interim site
		quote. (See
		Attachment 7A).
		This amount is
		50% of Interim
		Antenna Elbow
		Complex,
		Attachment 7A
		section 3-C-2.
	Amount:	\$1,800.00
	Component Description:	Invoice is 25%
		Down Payment for
		\$64,770.25 ATC
		interim site quote.
		(See Attachment
		7A). This amount
		is 25% of Interim
		Antenna Elbow
		Complex,
		Attachment 7A
		section 3-C-2.
	Amount:	\$900.00

New com	biner, cost per
channel ((without antenna)

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Combiner, Attachment 7A section 3-C-1.

Amount: \$11,250.00

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim

Combiner, Attachment 7A section 3-C-1.

Amount: \$5,625.00

UHF - High Power Top Mount Five Station broadband panel antenna elliptically or circularly polarized

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim

Antenna,

Attachment 7A section 3-B. \$40,897.50

Amount:

Component Description:

Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim

Antenna,

Attachment 7A section 3-B.

Amount: \$20,448.75

Combiner Installation		
	Component Description:	Invoice is 50%
		Down Payment fo
		ATC interim site
		quote. (See
		Attachment 7A).
		This amount is
		50% of Interim
		Combiner
		Installation,
		Attachment 7A
		section 3-C-2.
	Amount:	\$2,500.00
	Component Description:	Invoice is 25%
		Down Payment fo
		\$64,770.25 ATC
		interim site quote.
		(See Attachment
		7A). This amount
		is 25% of Interim

Combiner Installation, Attachment 7A section 3-C-2.

Amount: \$1,250.00

Sweep test of existing		
antenna	Component Description: Amount:	Invoice is 50% Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Antenna Line Sweep Test, Attachment 7A section 3-C-2. \$1,250.00
	Component Description: Amount:	Invoice is 25% Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Antenna Line Sweep Test, Attachment 7A section 3-C-2. \$625.00
Dielectric Combiner Installation	Component Description: Amount:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Combiner Installation, Attachment 6B section 3-C-2. \$4,275.00

Elbow complex, broadband,		
at antenna input, per 8 3/16. feedline (if needed)	Component Description:	Invoice is 25%
reedine (ii rieeded)		Down Payment for
		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount
		is 25% of Primary
		Antenna Elbow
		Complex,
		Attachment 6B
		section 3-C-2.
	Amount:	\$4,500.00
New combiner, cost per		
channel (without antenna)	Component Description:	Invoice is 25%
		Down Payment for
		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount
		is 25% of Primary
		Combiner,
		Attachment 6B
		section 3-C-1.
	Amount:	\$16,500.00
Sweep test of existing		
antenna	Commonant Description	Inveige is 250/
	Component Description:	Invoice is 25%
		Down Payment for
		\$187,690.00 ATC
		primary site quote. (See Attachment
		`
		6B.) This amount
		is 25% of Primary Antenna Line RF
		Sweep Test, Attachment 6B
		section 3-C-2.
	Amount:	\$1,250.00
	AIIIOUIIL.	უ ⊧,∠ე∪.∪∪

UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized

Component Description:

Invoice is 25%
Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Antenna,

Attachment 6B section 3-B.

\$50,528.25

Amount:

Cost Information

Transmission Line

Description Interim Transmission	Predetermined Cost Estimate \$488,775.00	Estimated Cost \$46,121.00	Estimated Cost Justification	Actual Cost \$34,590.75	Actual Cost Justification
Rigid Transmission Line - copper, 8 3 /16" broadband	\$488,775.00	\$46,121.00	N/A	\$34,590.75	N/A
Primary Transmission Line	\$943,950.00	\$130,933.50		\$17,958.42	
Interconnect tx line aux	\$28,800.00	\$28,800.00	Aux transmitter interconnect to combiner. 150ft of 6-1 /8" rigid copper line.	N/A	N/A
Interconnect tx line main	\$13,800.00	\$13,800.00	50ft of 7-3 /16" line for main tx connect to combiner. Published price.	N/A	N/A
Gas Blocks	\$12,000.00	\$12,000.00	Required for aux interconnect to combiner	N/A	N/A

Total for all systems	\$8,936,193.28	\$5,344,320.00	N/A	\$3,534,865.71	N/A
Sub-total	\$1,432,725.00	\$177,054.50	N/A	\$52,549.17	N/A
			A.		
			6B section 3-		
			Attachment		
/16"			See		
copper, 8 3			Line (pro rata share).		
Transmission Line -			Transmission		
Rigid	\$884,850.00	\$71,833.50	Primary Site	\$17,958.42	IN/A
Digid	\$994 950 00	¢71 022 50	Drimon, Cito	¢17.059.42	N/A
			interconnect.		
			aux		
			combiner		
			to 6-1/8"		
			from 7-3/16"		
reducers			line adapter		
TX line	\$4,500.00	\$4,500.00	Required for	N/A	N/A

Actual Information	
Description	File Name

Rigid Transmission Line -		
copper, 8 3/16" broadband	Component Description: Amount:	Invoice is 50% Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Transmission Line, Attachment 7A section 3-A. \$23,060.50
	Component Description: Amount:	Invoice is 25% Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Transmission Line, Attachment 7A section 3-A. \$11,530.25
Interconnect tx line aux	Information not provided.	
Interconnect tx line main	Information not provided.	
Gas Blocks	Information not provided.	
TX line reducers	Information not provided.	
Rigid Transmission Line - copper, 8 3/16"	Component Description:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Transmission Line, Attachment 6B
	Amount:	section 3-A. \$17,958.42

Cost Information

Tower Equipment and Rigging Costs

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	\$882,066.67	\$320,083.34		\$80,020.83	
Tower Construction Management	\$10,000.00	\$10,000.00	Modification project management and RF installation project management - Flat Fee. See Attachment 6B section 3- D-1.	\$2,500.00	N/A
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$6,516.67	Pro-Rata Share. See Attachment 6B Section 3- A-1	\$1,629.16	N/A

Primary Tower	\$8,266.67	\$8,266.67	Structural tower	\$2,066.67	N/A
Mapping			mapping to ensure the		
			proper structural		
			information		
			is relayed to		
			engineering		
			for the		
			rigorous		
			structural		
			assessment		
			for the		
			proposed		
			repack		
			equipment.		
			See		
			Attachment		
			6B section 3-		
			A-1.		
Site Security	\$1,800.00	\$1,800.00	Site security	\$450.00	N/A
			for		
			installation		
			and storage		
			of		
			Transmission		
			line and		
			materials for		
			9 days X 12		
			hours. These		
			materials are		
			a high risk of		
			theft due to		
			the material		
			makeup		
			such as		
			copper,		
			brass and		
			aluminum.		
			See		
			Attachment		
			,		
			6B Section 1-		

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$136,000.00	N/A	\$34,000.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$157,500.00	N/A	\$39,375.00	N/A
Auxiliary Tower GTOWER	\$659,080.00	\$124,580.00		\$105,926.25	
Interim Tower Mapping	\$2,480.00	\$2,480.00	Structural tower mapping to ensure the proper structural information is relayed to engineering for the rigorous structural assessment for the proposed repack equipment. See	\$1,860.00	N/A

Interim Tower Rent	\$57,600.00	\$57,600.00	Flat rate for rental of	\$57,600.00	N/A
			interim tower while work is being done at the primary		
			tower required to permit stations to continue		
			broadcasting during modification in a safe and timely manner. See Attachment		
			6A, section 1- B-1.		
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$45,000.00	N/A	\$33,750.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$15,000.00	N/A	\$11,250.00	N/A
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$4,500.00	N/A	\$1,466.25	N/A
Sub-total	\$1,541,146.67	\$444,663.34	N/A	\$185,947.08	N/A
Total for all systems	\$8,936,193.28	\$5,344,320.00	N/A	\$3,534,865.71	N/A

Actual Information Description	File Name	
Tower Construction Management		
	Component Description:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Tower Construction Management, Attachment 6B section 3-D-1.
	Amount:	\$2,500.00
Structural engineering		
tower load study for a documented tower with candelabra	Component Description: Amount:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Tower Structural Analysis, Attachment 6B section 3-A-1. \$1,629.16
	7.11.00.11.	4 1,022110
Primary Tower Mapping		
	Component Description:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Tower Mapping, Attachment 6B section 3-A-1.
	Amount:	\$2,066.67

Site Security		
	Component Description:	Invoice is 25% Down Payment for
		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount is
		25% of Primary
		Site Security,
		Attachment 6B
		section 1-B-1.
	Amount:	\$450.00
Complex Tower (includes,		
for example, those with candelabras and/or	Component Description:	Invoice is 25%
		Down Payment for
stacked antennas)		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount is
		25% of Primary
		Tower Rigging,
		Attachment 6B
		section 3-C-1.
	Amount:	\$34,000.00
Major tower reinforcement		
/modifications	Component Description:	Invoice is 25%
		Down Payment for
		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount is
		25% of Primary
		Tower
		Reinforcement,
		Attachment 6B
		section 3-C-2.
	Amount:	\$39,375.00

		lavaias i 500/
	Component Description:	Invoice is 50%
		Down Payment for
		ATC interim site
		quote. (See
		Attachment 7A).
		This amount is
		50% of Interim
		Mapping,
		Attachment 7A
		section 3-A-1.
	Amount:	\$1,240.00
	Component Description:	Invoice is 25%
		Down Payment for
		\$64,770.25 ATC
		interim site quote.
		(See Attachment
		7A). This amount is
		25% of Interim
		Tower Mapping,
		Attachment 7A
		section 3-A-1.
	Amount:	\$620.00
Interim Tower Rent		
	Component Description:	Interim Tower
		Rental - Flat Rate.
		See Attachment
		6A, section 1-B-1.
	Amount:	\$57,600.00
	Amount.	ψυτ,000.00

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim

Rigging,

Attachment 7A section 3-C-1.

Amount: \$22,500.00

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Tower Complex

Rigging,

Attachment 7A section 3-C-1.

Amount: \$11,250.00

Minor tower reinforcement
/modifications

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim

Tower

Reinforcement, Attachment 7A section 3-A-2.

Amount: \$7,500.00

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim

Tower

Reinforcement, Attachment 7A section 3-A-2.

Amount: \$3,750.00

Structural engineering tower load study for a documented tower with candelabra

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Tower Structural

Analysis,

Attachment 7A section 3-A-1.

Amount: \$977.50

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Tower Structural

Analysis,

Attachment 7A section 3-A-1.

Amount: \$488.75

Cost Information

Outside Professional Services

Description Outside Professional	Predetermined Cost Estimate \$82,645.00	Estimated Cost \$70,825.00	Estimated Cost Justification	Actual Cost \$17,194.17	Actual Cost Justification
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$10,825.00	Engineering studies for new channel assignment and antenna development. See Attachments 6 and 7 section 1-A-1 (\$5,000 each) and Attachment 16 (\$825).	\$5,825.00	N/A
RF System Tests	\$10,000.00	\$10,000.00	Testing of the primary and interim combiners to ensure all frequencies are tuned for optimal patterns. See Attachments 6A and 7A section 1-B-1.	\$5,000.00	N/A
RF Exposure Measurements	\$21,050.00	\$8,000.00	N/A	\$1,250.00	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	\$1,625.00	N/A
Project management of the transition	\$39,500.00	\$37,500.00	N/A	\$3,494.17	N/A
Sub-total	\$82,645.00	\$70,825.00	N/A	\$17,194.17	N/A
Total for all systems	\$8,936,193.28	\$5,344,320.00	N/A	\$3,534,865.71	N/A

Actual Information Description	File Name	
Perform engineering study for new channel assignment and antenna development	Component Description:	Invoice is 50% Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Antenna Development, Attachment 7A section 1-A-2.
	Amount:	\$2,500.00

Component Description: Invoice is 25%

Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B). This amount is 25% of primary

antenna

development, Attachment 6B section 1-A-2.

Amount: \$1,250.00

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim

Antenna

Development, Attachment 7A section 1-A-2.

Amount: \$1,250.00

Component Description: Conduct

preliminary review

of repacked channel with

prospective shared antenna. See Attachment 16.

Amount: \$825.00

RF System Tests

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Combiner Tests, Attachment 7A section 1-B-1.

Amount: \$2,500.00

Component Description: Invoice is 25%

Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Combiner Tests, Attachment 6B section 1-B-1.

Amount: \$1,250.00

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Combiner Tests, Attachment 7A section 1-B-1.

Amount: \$1,250.00

Measurements		
	Component Description:	Invoice is 25%
		Down Payment for
		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount is
		25% of Primary
		Antenna RF
		Exposure
		Measurements,
		Attachment 6B
		section 1-A-4.
	Amount:	\$1,250.00
Prepare engineering section of FCC Form 2100 (main), License to Cover	Information not provided.	
Application		
Prepare engineering section of FCC Form 2100	Common and December them.	Davidar food EDD
(main), Construction	Component Description:	Develop final ERP
Permit Application		and operating
		parameters for
		Construction Permit
		application. See
		Attachment 16.
	Amount:	\$1,625.00

Project management of the	
transition	

Component Description: Project

Management and

Repack

Implementation.
Review American
Tower site plans.

Amount: \$337.50

Component Description: Project

Management and

Repack

Implementation.
Please see

Attachment 15.

Amount: \$3,156.67

Cost Information

Other Expenses

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost
Other Expenses	\$106,810.00	\$99,510.00		\$26,255.00	
ATC Proj Mgmt	\$18,960.00	\$18,960.00	American Tower project management and oversight for primary tower. See Attachments 6B and 7A, section 1-A- 1.	\$9,480.00	N/A
Non-zoning permits	\$20,300.00	\$20,300.00	Prepare drawings for permits and permit filing costs for Main and Interim tower work. See Attachments 6B and 7, sections 3-D-1 and 1-A-3.	\$10,150.00	N/A

Address Transition Timing	\$5,000.00	\$5,000.00	Coordination and transition planning with all parties onsite and management of the timelines and schedules occurring during the repack. See Attachments 6B and 7A section 1-A-1.	\$2,500.00	N/A
Site Coordination Meetings	\$3,500.00	\$3,500.00	Site coordination meetings with all broadcasters, contractors and vendors involved with the site project. See Attachments 6 and 7 section 1-B-1.	\$1,375.00	N/A
Main tx internal tx line	\$7,000.00	\$7,000.00	Install line from transmitter to combiner and test.	N/A	N/A
Interim site tx internal tx line	\$4,000.00	\$4,000.00	Install line from transmitter to combiner and test.	N/A	N/A
MVPD Notification of Channel Change	\$1,500.00	\$1,500.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	N/A	\$2,083.33	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$20,000.00	\$20,000.00	Remove and dispose of transmitter and associated non-reused equipment.	\$666.67	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,250.00	N/A	N/A	N/A
Sub-total	\$106,810.00	\$99,510.00	N/A	\$26,255.00	N/A
Total for all systems	\$8,936,193.28	\$5,344,320.00	N/A	\$3,534,865.71	N/A

Components

Actual Information		
Description	File Name	

ATC Proj Mgmt		
	Component Description: Amount:	Invoice is 50% Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Tower Project Management, Attachment 7A section 1-A-1. \$4,740.00
	Component Description: Amount:	Invoice is 25% Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Tower Project Management, Attachment 7A section 1-A-1. \$2,370.00
	Component Description: Amount:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Tower Project Management, Attachment 6B section 1-A-1. \$2,370.00
Non-zoning permits		

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Interim Building and Tower drawings and building permit fees. See Attachment 7A sections 3-D-1 and

1-A-3.

Amount: \$5,075.00

Component Description: Invoice is 25%

Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Building and Tower drawings and building permit

fees. See Attachment 6B sections 3-D-1 (\$1,175 plus

\$1,175) and 1-A-3

(\$187.50).

Amount: \$2,537.50

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Building and Tower drawings and building permit

fees. See Attachment 7A sections 3-D-1 and

1-A-3.

Amount: \$2,537.50

Address Transition Timing

Component Description: Invoice is 50%

Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Address Transition

Timing,

Attachment 7A section 1-A-1.

Amount: \$1,250.00

Component Description: Invoice is 25%

Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Address Transition

Timing,

Attachment 7A section 1-A-1.

Amount: \$625.00

Component Description: Invoice is 25%

Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Tower Address Transition Timing, Attachment 6B section 1-A-1.

Amount: \$625.00

Site Coordination Meetings		
	Component Description: Amount:	Invoice is 50% Down Payment for ATC interim site quote. (See Attachment 7A). This amount is 50% of Interim Site Coordination Meetings, Attachment 7A section 1-B-1. \$500.00

	Component Description:	Invoice is 25% Down Payment for \$187,690.00 ATC primary site quote. (See Attachment 6B.) This amount is 25% of Primary Site Coordination Meetings, Attachment 6B section 1-B-1.
	Amount:	\$625.00
	Component Description:	Invoice is 25% Down Payment for \$64,770.25 ATC interim site quote. (See Attachment 7A). This amount is 25% of Interim Site Coordination Meetings, Attachment 7A section 1-B-1.
	Amount:	\$250.00
Main tx internal tx line	Information not provided.	
Interim site tx internal tx line	Information not provided.	
MVPD Notification of	Information not provided	

Information not provided.

MVPD Notification of

Channel Change

Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges		
U U	Component Description:	Invoice is 25%
		Down Payment for
		\$187,690.00 ATC
		primary site quote. (See Attachment
		6B.) This amount
		is 25% of Primary
		Tower Equipment
		Delivery and
		Handling,
		Attachment 6B
		section 1-A-4.
	Amount:	\$2,083.33
Disposal Costs (for		
equipment and other waste,	Component Description:	Invoice is 25%
net of any salvage value)		Down Payment for
		\$187,690.00 ATC
		primary site quote.
		(See Attachment
		6B.) This amount
		is 25% of Primary
		Site Disposal
		Costs, Attachment
		6B section 1-A-4.
	Amount:	\$666.67
DTV Medical Facility Notification	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$8,936,193.28	\$5,344,320.00	\$3,534,865.71

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

09/10/2019

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. Andrew J Siegel Assistant Secretary

09/10/2019

Attachments