



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **70852** | Service: **DTV** | Call **WAND** | Channel: **20 (UHF)** |
ID:
File **0000028625**
Number:
FRN: **0009134289** | Date **09/30**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WAND(TV) PARTNERSHIP	Ricky Joseph 904 W. Southside Drive DECATUR, IL 62521 United States	+1 (217) 706-9501	ricky. joseph@wandtv. com	Limited Partnership

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Greg Yadon <i>Assistant Chief Engineer WAND(TV) Partnership</i>	Greg Yadon 904 Southside Drive Decatur, IL 62521 United States	+1 (217) 706- 9545	Greg.Yadon@wandtv. 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.		No
Briefly describe transition plan		New transmitter will be placed in existing building. A side mount antenna will be placed on existing tower until time to shut down current transmitter and put new TX online and correct primary antenna placed on top of the tower.

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Refurbished HP50DDW
	Year	2006
	Type	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	ULXTE-90
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50 kW
	Justification for New Transmitter	Existing unit is outdated and can not be re-tuned to new specs.

**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	300 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	Parallel Surge Suppressor for 3PH WYE or DELTA (Lightning and surge protection).
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	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 leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Mask Filter	Filter for preventing out of band emissions
RF Accessories	RF system components necessary for the interim use and permanent install of the new transmitter
State and local sales tax on materials needed for electrical service	State and Local Sales tax on materials relating to electrical installation
Building Electrical work	Install electrical system components in building by ALLTECH Electric

Installation services	Fees for installing the transmitter and inside RF system.
Shipping	Shipping charges for transmitter components
State and local sales tax on transmitter	State and Local Sales tax on the new transmitter.
Transmitter Electrical Work	Electrical work for installation of GatesAir transmitter

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Type	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-31JTH /VP-R T110C
Year	2011

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	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 Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	1000.0 kW
	Manufacturer	

Model	ATW30H3-ETTX-20H
Year	2017
Justification for New Antenna	Changing from channel 17 to channel 20. Current equipment cannot be used for the new channel.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	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?	

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Top Plate Adapter	Top Plate Adapter
State and Local Sales Tax	State and local sales tax in the amount of 9.25% is calculated on the total cost, bringing the total amount to 627937.32
Reducer	Transmission line reducer-two needed
Transformer	Matching transformer for new transmission line-two needed

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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 Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	695.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	435.3 kW
	Manufacturer	
	Model	ATW16H9- ESO-17/20L
	Year	2017

	Justification for New Antenna	Interim side mount antenna to be put in place while primary antenna and feedline is replaced to minimize loss of on air time.
--	-------------------------------	---

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Transformer	Matching transformer for new transmission line.
Sales Tax	State and local sales tax is calculated at 9.25% on the amount of the total sale, bringing the total cost to 383011.38

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary
Transmission Line

Existing Transmission 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 Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1350 feet per run

Primary **New Transmission Line**
Transmission 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
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1200 feet per run
	Justification for New Transmission Line	Current equipment cannot be used for the new channel.

Primary **Other Transmission Line Expenses Not Listed**
Transmission Line

Information not provided.

Interim **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 ¾ '
	Other Segment Length	
	Number of parallel runs	1
	Length	1350 feet per run
	Justification for New Transmission Line	Current transmission line cannot be used with new channel assignment of channel 20

Interim **Other Transmission Line Expenses Not Listed**
Transmission Line

Information 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

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	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?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1009651
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 57' 08.6" N-
	Longitude (NAD83)	088° 49' 56.6" W-
	Overall Structure Height	1313.96 feet
	Support Structure Height	1243.10 feet
	Ground Elevation Above Mean Sea Level (AMSL)	686.02 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	WAND(TV) Partnership
	Date Constructed	10/01/1980

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No 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 Rigging - Drawings	Top plate tower drawings required for repack

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	WDRB does not have sufficient resource capacity and expertise in house to handle all of the reimbursement filing.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	No
	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	Yes
	For Auxiliary Facility	No

	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	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	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

Name	Description
Attorney Fees and Other Matters	Other re-pack legal services.

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

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Rental of heavy equipment	rental of forklift or sky-jack to off load transmitter antennas and transmission line and other equipment.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-90	\$1,938,263.15	\$1,787,935.31		\$1,782,625.46	
Building Electrical work	<i>\$36,761.58</i>	\$36,761.58	see Estimated Cost Justification WAND-110-1st Primary Transmitter Building Electrical Work v1	\$36,761.58	N/A
Installation services	<i>\$81,690.50</i>	\$81,690.50	N/A	\$81,690.50	N/A
Shipping	<i>\$13,500.00</i>	\$13,500.00	N/A	\$13,500.00	N/A
Transmitter Electrical Work	<i>\$12,101.82</i>	\$12,101.82	N/A	\$12,101.82	N/A
RF Accessories	<i>\$122,228.17</i>	\$122,228.17	N/A	\$122,228.17	N/A
State and local sales tax on materials needed for electrical service	<i>\$0.00</i>	\$0.00	N/A	\$0.00	N/A
Mask Filter	<i>\$56,125.88</i>	\$56,125.88	N/A	\$56,125.88	N/A
State and local sales tax on transmitter	<i>\$106,055.20</i>	\$106,055.20	N/A	\$100,745.35	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,359,472.16	N/A	\$1,359,472.16	N/A
Other Electrical Service: Parallel Surge Suppressor for 3PH WYE or DELTA (Lightning and surge protection).	\$0.00	\$0.00	N/A	\$0.00	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$0.00	N/A	\$0.00	N/A
Sub-total	\$1,938,263.15	\$1,787,935.31	N/A	\$1,782,625.46	N/A
Total for all systems	\$3,822,824.45	\$3,612,689.65	N/A	\$3,337,571.99	N/A

Components

Actual Information	
Description	File Name
Building Electrical work	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Installation of Electrical Wiring</div> <div>\$35,904.54</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Additional Wiring for UPS</div> <div>\$857.04</div> </div>

Installation services	<p>Component Description: This is the line item for installation of the transmitter shown on the invoice.</p> <p>Amount: \$81,690.50</p>
Shipping	<p>Component Description: This is the line item for freight for the attached invoice.</p> <p>Amount: \$13,500.00</p>
Transmitter Electrical Work	<p>Component Description: This is the electrical cost for the transmitter.</p> <p>Amount: \$12,101.82</p>
RF Accessories	<p>Component Description: This is the line item for RF accessories on the attached invoice.</p> <p>Amount: \$122,228.17</p>
State and local sales tax on materials needed for electrical service	Information not provided.
Mask Filter	<p>Component Description: This is the line item for the Mask Filter System on the invoice.</p> <p>Amount: \$56,125.88</p>
State and local sales tax on transmitter	<p>Component Description: Tax</p> <p>Amount: \$100,745.35</p>

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div> Component Description: Transmitter</div> <div> Amount: \$192,023.01</div>
	<div> Component Description: This invoice is for 2 /3 of the transmitter cost and is now due. The final 1/3 will be due after installation.</div> <div> Amount: \$1,167,449.15</div>
Other Electrical Service: Parallel Surge Suppressor for 3PH WYE or DELTA (Lightning and surge protection).	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna ATW16H9-ESO-17/20L	\$309,506.88	\$200,562.13		\$159,833.69	
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	\$6,250.00	N/A
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$131,647.21	see Estimated Cost Justification WAND-280-Interim Antenna Lower Power Side Mount v0	\$131,647.21	N/A
Sales Tax	\$32,428.88	\$32,428.88	N/A	\$0.00	N/A
Transformer	\$7,898.00	\$7,898.00	Two transformers are required for impedance matching for interim antenna, primary antenna and transmitter.	\$0.00	N/A

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$14,273.04	see Estimated Cost Justification WAND-280-Interim Antenna Side Mount Brackets v0	\$14,273.04	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$8,065.00	Price quoted by manufacturer, quote attached.	\$7,663.44	N/A
Primary Antenna ATW30H3-ETTX-20H	\$384,143.32	\$358,223.01		\$292,559.67	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$14,728.93	see Estimated Cost Justification WAND-210-Primary Antenna Elbow Complex 8 3_16 v1	\$14,728.91	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$264,580.76	see Estimated Cost Justification WAND-210-Primary Antenna High Power Top Mount v0	\$264,580.76	N/A
Reducer	\$4,600.00	\$4,600.00	N/A	\$0.00	N/A
State and Local Sales Tax	\$53,166.32	\$53,166.32	N/A	\$0.00	N/A

Transformer	\$7,897.00	\$7,897.00	Two transformers are required for impedance matching for interim antenna, primary antenna and transmitter.	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	\$6,250.00	N/A
Top Plate Adapter	\$7,000.00	\$7,000.00	Please see Malouf Top Plate Fee Quote and Malouf Structural Analysis Proposal Scope B	\$7,000.00	N/A
Sub-total	\$693,650.20	\$558,785.14	N/A	\$452,393.36	N/A
Total for all systems	\$3,822,824.45	\$3,612,689.65	N/A	\$3,337,571.99	N/A

Components

Actual Information

Description

File Name

Sweep test of existing antenna	Component Description: Amount:	WAND-280-Interim Antenna Sweep Test \$1,875.00
	Component Description: Amount:	WAND-280-Interim Antenna Sweep Test \$625.00
	Component Description: Amount:	WAND-280-Interim Antenna Sweep Test \$1,875.00
	Component Description: Amount:	WAND-280-Interim Antenna Sweep Test \$1,875.00
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	Component Description: Amount:	Interim Antenna & Installation \$22,072.21
	Component Description: Amount:	ATW16H9-ESO-17 /20L w/Custom Mounts \$36,525.00
	Component Description: Amount:	Interim Antenna & Installation \$36,525.00
	Component Description: Amount:	Interim Antenna & Installation \$36,525.00

Sales Tax	Information not provided.	
Transformer	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:	WAND-280-Interim Antenna Side Mount Brackets
	Amount:	\$3,960.00
	Component Description:	WAND-280-Interim Antenna Side Mount Brackets
	Amount:	\$3,960.00
	Component Description:	WAND-280-Interim Antenna Side Mount Brackets
	Amount:	\$3,960.00
	Component Description:	WAND-280-Interim Antenna Side Mount Brackets
	Amount:	\$2,393.04

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:		WAND-280-Interim Antenna Elbow Complex 6 1/8"
	Amount:		\$1,284.87
	Component Description:		WAND-280-Interim Antenna Elbow Complex 6 1/8"
	Amount:		\$2,126.19
	Component Description:		WAND-280-Interim Antenna Elbow Complex 6 1/8"
	Amount:		\$2,126.19
	Component Description:		WAND-280-Interim Antenna Elbow Complex 6 1/8"
	Amount:		\$2,126.19

Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	Component Description:		2. WAND-210- Primary Antenna Elbow Complex 8 3 /16"
	Amount:		\$1,576.28
	Component Description:		WAND-210- Primary Antenna Elbow Complex 6 1 /8"
	Amount:		\$4,384.21
	Component Description:		WAND-210- Primary Antenna Elbow Complex 6 1 /8"
	Amount:		\$4,384.21
	Component Description:		2. WAND-210- Primary Antenna Elbow Complex 8 3 /16"
	Amount:		\$4,384.21

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Main Antenna and Installation Services \$42,505.76
	Component Description: Amount:	Main Antenna & Installation Service \$74,025.00
	Component Description: Amount:	Main Antenna & Installation Services \$74,025.00
	Component Description: Amount:	Invoice moved to correct budget category. N/A
	Component Description: Amount:	Main Antenna & Installation Services \$74,025.00
Reducer	Information not provided.	
State and Local Sales Tax	Information not provided.	
Transformer	Information not provided.	

Sweep test of existing antenna	Component Description:	1. WAND-210-Primary Antenna Sweep Test
	Amount:	\$625.00
	Component Description:	WAND-210-Primary Antenna Sweep Test
	Amount:	\$1,875.00
	Component Description:	1. WAND-210-Primary Antenna Sweep Test
	Amount:	\$1,875.00
	Component Description:	WAND-210-Primary Antenna Sweep Test
	Amount:	\$1,875.00
Top Plate Adapter	Component Description:	WAND-210-Primary Antenna Top Plate Adapter
	Amount:	\$3,000.00
	Component Description:	Design structural modifications for Top Plate
	Amount:	\$4,000.00

Cost
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$272,700.00	\$202,019.00		\$198,674.99	
Rigid Transmission Line - copper, 6 1/8"	\$272,700.00	\$202,019.00	N/A	\$198,674.99	N/A
Primary Transmission Line	\$416,400.00	\$381,646.00		\$355,485.58	
Rigid Transmission Line - copper, 8 3/16"	\$416,400.00	\$381,646.00	N/A	\$355,485.58	N/A
Sub-total	\$689,100.00	\$583,665.00	N/A	\$554,160.57	N/A
Total for all systems	\$3,822,824.45	\$3,612,689.65	N/A	\$3,337,571.99	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 6 1/8"		
	Component Description:	WAND-380- Interim Transmission Line 6 1/8"
	Amount:	\$40,480.55
	Component Description:	WAND-380- Interim Transmission Line 6 1/8"
	Amount:	\$52,731.48
	Component Description:	WAND-380- Interim Transmission Line 6 1/8"
	Amount:	\$52,731.48
	Component Description:	WAND-380- Interim Transmission Line 6 1/8"
	Amount:	\$52,731.48

Rigid Transmission Line -
copper, 8 3/16"

Component Description: 3. WAND-310-
Primary
Transmission Line
8 3/16"
Amount: \$57,088.96

Component Description: WAND-310-
Primary
Transmission Line
8 3/16"
Amount: \$99,465.54

Component Description: WAND-310-
Primary
Transmission Line
8 3/16"
Amount: \$99,465.54

Component Description: WAND-310-
Primary
Transmission Line
8 3/16"
Amount: \$99,465.54

Cost
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$225,100.00	\$390,241.00		\$385,241.00	
Tower Rigging - Drawings	\$2,000.00	\$2,000.00	Please see WAND Tower Rigging - Drawings Revision Justification Cover Letter	\$2,000.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$8,000.00	N/A	\$3,000.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$380,241.00	see Estimated Cost Justification WAND-410- Existing Primary Tower Tower Equipment and Rigging - Tall Tower v0	\$380,241.00	N/A
Sub-total	\$225,100.00	\$390,241.00	N/A	\$385,241.00	N/A
Total for all systems	\$3,822,824.45	\$3,612,689.65	N/A	\$3,337,571.99	N/A

Components

Actual Information		
Description	File Name	
Tower Rigging - Drawings	Component Description:	Engineering Services
	Amount:	\$2,000.00
Structural engineering tower load study for well documented tower	Component Description:	Perform a Structural Tower Analysis
	Amount:	\$3,000.00
Tall Tower (greater than 500')	Component Description:	WAND-410-Existing Primary Tower Tower Equipment and Rigging - Tall Tower
	Amount:	\$13,278.10
	Component Description:	Weather Day
	Amount:	\$5,200.00
	Component Description:	4. WAND-410-Existing Primary Tower Tower Equipment and Rigging - Tall Tower
	Amount:	\$18,311.00
	Component Description:	WAND-410-Existing Primary Tower Tower Equipment and Rigging - Tall Tower
	Amount:	\$39,834.30

Component Description:	Electronic Research, Inc.
Amount:	\$17,550.00

Component Description:	Weather Day
Amount:	\$41,600.00

Component Description:	WAND-410- Existing Primary Tower Tower Equipment and Rigging - Tall Tower
Amount:	\$39,834.30

Component Description:	WAND-410- Existing Primary Tower Tower Equipment and Rigging - Tall Tower
Amount:	\$54,933.00

Component Description:	WAND-410- Existing Primary Tower Tower Equipment and Rigging - Tall Tower
Amount:	\$54,933.00

Component Description:	WAND-410- Existing Primary Tower Tower Equipment and Rigging - Tall Tower
Amount:	\$54,933.00

Component Description:

WAND-410-
Existing Primary
Tower Tower
Equipment and
Rigging - Tall
Tower

Amount:

\$39,834.30

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$253,295.10	\$270,432.20		\$144,535.60	
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$255.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$556.50	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$527.50	N/A
Attorney Fees and Other Matters	<i>\$20,110.10</i>	\$20,110.10	Please see the attached invoices from COOLEY (Attorneys at law) # 1777272, 1793256 and 1800012	\$19,124.50	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$0.00	N/A

Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$0.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$0.00	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$23,444.00	Please see WAND Attorney STA Budget Revision Justification Letter	\$23,444.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$3,755.50	see Estimated Cost Justification WAND-590-Transition Timing and Coordination v0	\$3,755.50	N/A
Project management of the transition	\$94,010.00	\$96,872.60	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$96,872.60	Please see submitted invoices
Sub-total	\$253,295.10	\$270,432.20	N/A	\$144,535.60	N/A
Total for all systems	\$3,822,824.45	\$3,612,689.65	N/A	\$3,337,571.99	N/A

Components

Actual Information	
Description	File Name
Prepare and or review reimbursement form	<div> Component Description: For Services Rendered </div> <div> Amount: \$212.50 </div> <div> Component Description: WAND-590-Prepare and or review reimbursement Form </div> <div> Amount: \$42.50 </div>

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description:	WAND-550-Attorney Prepare and File Construction Permit Application (Main)
	Amount:	\$471.50
	Component Description:	WAND-550-Attorney Prepare and File Construction Permit Application (Main)
	Amount:	\$85.00
	Component Description:	WAND-550-Attorney Prepare and File Construction Permit Application (Main)
	Amount:	\$1,612.50
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	For Services Rendered
	Amount:	\$527.50
Attorney Fees and Other Matters	Component Description:	Email with station engineers re FCC repack quarterly progress report
	Amount:	\$270.00
	Component Description:	Email with K. Wilkowski and station staff re FCC site visits
	Amount:	\$1,170.00

Component Description:	Email with station staff re FCC quarterly repack progress report
Amount:	\$348.00

Component Description:	Fees
Amount:	\$5,743.00

Component Description:	Email with K. Wilkowski re FCC repack notice on potential fraud
Amount:	\$90.00

Component Description:	Conference call and email with R. Gunther re quarterly repack progress report
Amount:	\$1,093.00

Component Description:	Email with engineering staff re second tranche of repack funding
Amount:	\$90.00

Component Description:	WAND-590-Other Legal Services
Amount:	\$1,827.00

Component Description:	WAND-590-Other Legal Services
Amount:	\$203.00

Component Description:	Fees
Amount:	\$762.00

	<p>Component Description: Emails re quarterly transition progress report and FCC update to cost catalog prices</p> <p>Amount: \$180.00</p> <p>Component Description: Fees</p> <p>Amount: \$7,348.50</p>
RF Exposure Measurements	Information not provided.
Comprehensive coverage verification via field study, if needed	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.
Attorney Fees - Prepare and File request for Special Temporary Authorization	<p>Component Description: Email with working group re STA request and project status</p> <p>Amount: \$23,444.00</p>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Address transition timing and coordination issues w/ other stations and wireless	Component Description:	WAND-590- Transition Timing and Coordination
	Amount:	\$3,755.50
Project management of the transition	Component Description:	Project Management
	Amount:	\$4,113.90
	Component Description:	Project Management
	Amount:	\$4,816.50
	Component Description:	Project Management
	Amount:	\$5,472.50
	Component Description:	Project Management
	Amount:	\$3,139.10
	Component Description:	Project Management
	Amount:	\$1,586.00
	Component Description:	Project Management
	Amount:	\$6,683.15
	Component Description:	Project Management
	Amount:	\$1,809.30

Component Description:	Project Management
Amount:	\$2,710.05

Component Description:	Project Management
Amount:	\$2,743.75

Component Description:	Project Management
Amount:	\$1,135.20

Component Description:	Project Management
Amount:	\$3,060.20

Component Description:	Project Management
Amount:	\$2,480.45

Component Description:	Project Management
Amount:	\$3,908.45

Component Description:	Project Management
Amount:	\$4,388.80

Component Description:	Project Management
Amount:	\$4,156.30

Component Description:	Project Management
Amount:	\$4,691.15

Component Description:	Project Management
Amount:	\$3,798.95

Component Description:	Project Management
Amount:	\$2,426.85

Component Description:	Project Management
Amount:	\$8,279.45

Component Description:	Project Management
Amount:	\$3,016.40

Component Description:	Project Management
Amount:	\$2,914.55

Component Description:	Project Management
Amount:	\$3,477.65

Component Description:	Project Management
Amount:	\$3,035.65

Component Description:	Project Management
Amount:	\$1,496.00

Component Description:	Project Management
Amount:	\$2,990.95

Component Description:	Project Management
Amount:	\$1,342.90

Component Description:	Project Management
Amount:	\$3,587.30

Component Description:	Project Management
Amount:	\$3,016.40

Component Description:	Project Management
Amount:	\$1,324.00

Component Description:	Project Management
Amount:	\$241.75

Component Description:	Project Management
Amount:	\$2,045.40

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$23,416.00	\$21,631.00		\$18,616.00	
Rental of heavy equipment	<i>\$2,500.00</i>	\$2,500.00	N/A	\$0.00	N/A
MVPD Notification of Channel Change	<i>\$8,538.00</i>	\$8,538.00	see Estimated Cost Justification WAND-610-MVPD Notification v0	\$8,538.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$298.00</i>	\$298.00	Please see WAND Disposal Budget Justification Letter	\$298.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	\$0.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	\$0.00	N/A

DTV Medical Facility Notification	\$11,550.00	\$9,780.00	see Estimated Cost Justification WAND-610-DTV Medical Facility Notification v0	\$9,780.00	N/A
Sub-total	\$23,416.00	\$21,631.00	N/A	\$18,616.00	N/A
Total for all systems	\$3,822,824.45	\$3,612,689.65	N/A	\$3,337,571.99	N/A

Components

Actual Information	
Description	File Name
Rental of heavy equipment	Information not provided.
MVPD Notification of Channel Change	<div> Component Description: MVPD Notification Services Amount: \$2,846.00 </div> <div> Component Description: MVPD Notification Services Amount: \$2,846.00 </div> <div> Component Description: MVPD Notification Services Amount: \$2,846.00 </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	<div> Component Description: Drum Disposal Amount: \$298.00 </div>

FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	<div> <div> Component Description: Amount: </div> <div> Notification of Medical Facilities \$4,890.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> DTV Notification \$4,890.00 </div> </div>

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,822,824.45	\$3,612,689.65	\$3,337,571.99

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>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.</p>	
		<ol style="list-style-type: none"> 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 above-named applicant for the Authorization(s) specified above.

Keith Wilkowski
VP, Legal & Governmental Affairs

09/30/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Keith Wilkowski <i>VP, Legal & Governmental Affairs</i></p> <p>09/30/2020</p>

Attachments