



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **70852** | Service: **DTV** | Call **WAND** | Channel: **20 (UHF)** |  
ID: | Sign: |  
File **0000028625**  
Number:  
FRN: **0009134289** | Date **04/21**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>WAND(TV) PARTNERSHIP</b>	Keith Wilkowski 624 W. MUHAMMAD ALI BLVD. LOUISVILLE, KY 40203 United States	+1 (419) 724- 7276	kwilkowski@blockcommunications. 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
<b>Greg Yadon</b> <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
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	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).
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Transmitter Electrical Work</b>	Electrical work for installation of GatesAir transmitter
<b>State and local sales tax on transmitter</b>	State and Local Sales tax on the new transmitter.
<b>Installation services</b>	Fees for installing the transmitter and inside RF system.
<b>Shipping</b>	Shipping charges for transmitter components
<b>Mask Filter</b>	Filter for preventing out of band emissions

<b>State and local sales tax on materials needed for electrical service</b>	State and Local Sales tax on materials relating to electrical installation
<b>RF Accessories</b>	RF system components necessary for the interim use and permanent install of the new transmitter
<b>Building Electrical work</b>	Install electrical system components in building by ALLTECH Electric

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	

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

## Primary Antenna

### Other Antenna Cost Not Listed

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

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	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.
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## Interim Antenna

### Other Antenna Costs

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

## Interim Antenna

### Other Antenna Cost Not Listed

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

**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
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	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  
Transmission Line

New 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  
Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

**Interim**  
**Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 3/4 '
	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**  
**Transmission Line**

**Other Transmission Line Expenses Not Listed**

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

Information not provided.

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	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.
<b>Outside RF consulting Engineering Services</b>	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
<b>Attorney and Other Outside Consulting Services</b>	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	No
	Quantity	N/A
	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
<b>RF Field Engineering Services</b>	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
<b>Attorney Fees and Other Matters</b>	Other re-pack legal services.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	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
<b>Primary Transmitter ULXTE-90</b>	<b>\$1,901,501.57</b>	<b>\$1,751,173.73</b>		<b>\$1,745,863.88</b>	
Building Electrical work	<i>\$0.00</i>	\$0.00	N/A	\$0.00	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
Transmitter Electrical Work	<i>\$12,101.82</i>	\$12,101.82	N/A	\$12,101.82	N/A
Installation services	<i>\$81,690.50</i>	\$81,690.50	N/A	\$81,690.50	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
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$0.00	N/A	\$0.00	N/A
Shipping	<i>\$13,500.00</i>	\$13,500.00	N/A	\$13,500.00	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
State and local sales tax on transmitter	\$106,055.20	\$106,055.20	N/A	\$100,745.35	N/A
<b>Sub-total</b>	\$1,901,501.57	\$1,751,173.73	N/A	\$1,745,863.88	N/A
<b>Total for all systems</b>	\$3,777,238.87	\$3,453,987.03	N/A	\$2,733,791.29	N/A

## Components

Actual Information	
Description	File Name
Building Electrical work	Information not provided.
RF Accessories	<p><b>Component Description:</b> This is the line item for RF accessories on the attached invoice.</p> <p><b>Amount:</b> \$122,228.17</p>
State and local sales tax on materials needed for electrical service	Information not provided.
Mask Filter	<p><b>Component Description:</b> This is the line item for the Mask Filter System on the invoice.</p> <p><b>Amount:</b> \$56,125.88</p>

Transmitter Electrical Work	<p><b>Component Description:</b> This is the electrical cost for the transmitter.</p> <p><b>Amount:</b> \$12,101.82</p>
Installation services	<p><b>Component Description:</b> This is the line item for installation of the transmitter shown on the invoice.</p> <p><b>Amount:</b> \$81,690.50</p>
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<p><b>Component Description:</b> This invoice is for 2 /3 of the transmitter cost and is now due. The final 1/3 will be due after installation.</p> <p><b>Amount:</b> \$1,167,449.15</p> <p><b>Component Description:</b> Transmitter</p> <p><b>Amount:</b> \$192,023.01</p>
Transformer 3 phase/480v - 300 KVA	Information not provided.
Shipping	<p><b>Component Description:</b> This is the line item for freight for the attached invoice.</p> <p><b>Amount:</b> \$13,500.00</p>
Other Electrical Service: Parallel Surge Suppressor for 3PH WYE or DELTA (Lightning and surge protection).	Information not provided.

State and local sales tax on transmitter	<table><tr><td data-bbox="699 94 1023 311"><b>Component Description:</b> <b>Amount:</b></td><td data-bbox="1023 94 1434 311">Tax \$100,745.35</td></tr></table>	<b>Component Description:</b> <b>Amount:</b>	Tax \$100,745.35
<b>Component Description:</b> <b>Amount:</b>	Tax \$100,745.35		

## 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
<b>Interim Antenna ATW16H9-ESO-17/20L</b>	<b>\$309,506.88</b>	<b>\$193,091.88</b>		<b>\$133,458.57</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$13,200.00	N/A	\$11,880.00	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.	\$6,378.57	N/A
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	\$5,625.00	N/A
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$125,250.00	N/A	\$109,575.00	N/A

Transformer	<b>\$7,898.00</b>	\$7,898.00	Two transformers are required for impedance matching for interim antenna, primary antenna and transmitter.	\$0.00	N/A
Sales Tax	<b>\$32,428.88</b>	\$32,428.88	N/A	\$0.00	N/A
<b>Primary Antenna ATW30H3-ETTX-20H</b>	<b>\$384,143.32</b>	<b>\$344,068.32</b>		<b>\$167,568.42</b>	
Transformer	<b>\$7,897.00</b>	\$7,897.00	Two transformers are required for impedance matching for interim antenna, primary antenna and transmitter.	\$0.00	N/A
Top Plate Adapter	<b>\$7,000.00</b>	\$7,000.00	Please see Malouf Top Plate Fee Quote and Malouf Structural Analysis Proposal Scope B	\$7,000.00	N/A
Reducer	<b>\$4,600.00</b>	\$4,600.00	N/A	\$0.00	N/A
State and Local Sales Tax	<b>\$53,166.32</b>	\$53,166.32	N/A	\$0.00	N/A

Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$11,905.00	N/A	\$8,768.42	N/A
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	\$3,750.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$253,250.00	N/A	\$148,050.00	N/A
<b>Sub-total</b>	\$693,650.20	\$537,160.20	N/A	\$301,026.99	N/A
<b>Total for all systems</b>	\$3,777,238.87	\$3,453,987.03	N/A	\$2,733,791.29	N/A

## Components

### Actual Information

Description	File Name
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<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="703 98 1023 322"><b>Component Description:</b></td><td data-bbox="1027 98 1426 322">WAND-280-Interim Antenna Side Mount Brackets</td></tr> <tr> <td data-bbox="703 329 1023 374"><b>Amount:</b></td><td data-bbox="1027 329 1426 374">\$3,960.00</td></tr> <tr> <td data-bbox="703 472 1023 696"><b>Component Description:</b></td><td data-bbox="1027 472 1426 696">WAND-280-Interim Antenna Side Mount Brackets</td></tr> <tr> <td data-bbox="703 703 1023 748"><b>Amount:</b></td><td data-bbox="1027 703 1426 748">\$3,960.00</td></tr> <tr> <td data-bbox="703 846 1023 958"><b>Component Description:</b></td><td data-bbox="1027 846 1426 958">WAND-280-Interim Antenna Side Mount Brackets</td></tr> <tr> <td data-bbox="703 965 1023 1010"><b>Amount:</b></td><td data-bbox="1027 965 1426 1010">\$3,960.00</td></tr> </table>	<b>Component Description:</b>	WAND-280-Interim Antenna Side Mount Brackets	<b>Amount:</b>	\$3,960.00	<b>Component Description:</b>	WAND-280-Interim Antenna Side Mount Brackets	<b>Amount:</b>	\$3,960.00	<b>Component Description:</b>	WAND-280-Interim Antenna Side Mount Brackets	<b>Amount:</b>	\$3,960.00
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<b>Component Description:</b>	WAND-280-Interim Antenna Side Mount Brackets												
<b>Amount:</b>	\$3,960.00												
<p>Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)</p>	<table> <tr> <td data-bbox="703 1023 1023 1247"><b>Component Description:</b></td><td data-bbox="1027 1023 1426 1247">WAND-280-Interim Antenna Elbow Complex 6 1/8"</td></tr> <tr> <td data-bbox="703 1254 1023 1299"><b>Amount:</b></td><td data-bbox="1027 1254 1426 1299">\$2,126.19</td></tr> <tr> <td data-bbox="703 1397 1023 1621"><b>Component Description:</b></td><td data-bbox="1027 1397 1426 1621">WAND-280-Interim Antenna Elbow Complex 6 1/8"</td></tr> <tr> <td data-bbox="703 1628 1023 1673"><b>Amount:</b></td><td data-bbox="1027 1628 1426 1673">\$2,126.19</td></tr> <tr> <td data-bbox="703 1771 1023 1883"><b>Component Description:</b></td><td data-bbox="1027 1771 1426 1883">WAND-280-Interim Antenna Elbow Complex 6 1/8"</td></tr> <tr> <td data-bbox="703 1890 1023 1935"><b>Amount:</b></td><td data-bbox="1027 1890 1426 1935">\$2,126.19</td></tr> </table>	<b>Component Description:</b>	WAND-280-Interim Antenna Elbow Complex 6 1/8"	<b>Amount:</b>	\$2,126.19	<b>Component Description:</b>	WAND-280-Interim Antenna Elbow Complex 6 1/8"	<b>Amount:</b>	\$2,126.19	<b>Component Description:</b>	WAND-280-Interim Antenna Elbow Complex 6 1/8"	<b>Amount:</b>	\$2,126.19
<b>Component Description:</b>	WAND-280-Interim Antenna Elbow Complex 6 1/8"												
<b>Amount:</b>	\$2,126.19												
<b>Component Description:</b>	WAND-280-Interim Antenna Elbow Complex 6 1/8"												
<b>Amount:</b>	\$2,126.19												
<b>Component Description:</b>	WAND-280-Interim Antenna Elbow Complex 6 1/8"												
<b>Amount:</b>	\$2,126.19												



Sweep test of existing antenna	<b>Component Description:</b>	WAND-280-Interim Antenna Sweep Test
	<b>Amount:</b>	\$1,875.00
	<b>Component Description:</b>	WAND-280-Interim Antenna Sweep Test
	<b>Amount:</b>	\$1,875.00
	<b>Component Description:</b>	WAND-280-Interim Antenna Sweep Test
	<b>Amount:</b>	\$1,875.00
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	<b>Component Description:</b>	Interim Antenna & Installation
	<b>Amount:</b>	\$36,525.00
	<b>Component Description:</b>	ATW16H9-ESO-17 /20L w/Custom Mounts
	<b>Amount:</b>	\$36,525.00
	<b>Component Description:</b>	Interim Antenna & Installation
	<b>Amount:</b>	\$36,525.00
Transformer	Information not provided.	
Sales Tax	Information not provided.	
Transformer	Information not provided.	

Top Plate Adapter	<b>Component Description:</b>	Design structural modifications for Top Plate
	<b>Amount:</b>	\$4,000.00
	<b>Component Description:</b>	WAND-210-Primary Antenna Top Plate Adapter
	<b>Amount:</b>	\$3,000.00
Reducer	Information not provided.	
State and Local Sales Tax	Information not provided.	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	<b>Component Description:</b>	WAND-210-Primary Antenna Elbow Complex 6 1/8"
	<b>Amount:</b>	\$4,384.21
	<b>Component Description:</b>	WAND-210-Primary Antenna Elbow Complex 6 1/8"
	<b>Amount:</b>	\$4,384.21
Sweep test of existing antenna	<b>Component Description:</b>	WAND-210-Primary Antenna Sweep Test
	<b>Amount:</b>	\$1,875.00
	<b>Component Description:</b>	WAND-210-Primary Antenna Sweep Test
	<b>Amount:</b>	\$1,875.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>	Main Antenna & Installation Services
	<b>Amount:</b>	\$74,025.00
	<b>Component Description:</b>	Main Antenna & Installation Service
	<b>Amount:</b>	\$74,025.00

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		\$158,194.44	
Rigid Transmission Line - copper, 6 1/8"	\$272,700.00	\$202,019.00	N/A	\$158,194.44	N/A
Primary Transmission Line	\$416,400.00	\$381,646.00		\$198,931.08	
Rigid Transmission Line - copper, 8 3/16"	\$416,400.00	\$381,646.00	N/A	\$198,931.08	N/A
Sub-total	\$689,100.00	\$583,665.00	N/A	\$357,125.52	N/A
Total for all systems	\$3,777,238.87	\$3,453,987.03	N/A	\$2,733,791.29	N/A

Components

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 6 1/8"	<b>Component Description:</b>	WAND-380- Interim Transmission Line 6 1/8"
	<b>Amount:</b>	\$52,731.48
	<b>Component Description:</b>	WAND-380- Interim Transmission Line 6 1/8"
	<b>Amount:</b>	\$52,731.48
	<b>Component Description:</b>	WAND-380- Interim Transmission Line 6 1/8"
	<b>Amount:</b>	\$52,731.48
Rigid Transmission Line - copper, 8 3/16"	<b>Component Description:</b>	WAND-310- Primary Transmission Line 8 3/16"
	<b>Amount:</b>	\$99,465.54
	<b>Component Description:</b>	WAND-310- Primary Transmission Line 8 3/16"
	<b>Amount:</b>	\$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	\$223,100.00	\$323,891.00		\$232,368.90	
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	\$315,891.00	Per ERI Quotes for Main and Interim Antennas	\$229,368.90	N/A
Sub-total	\$223,100.00	\$323,891.00	N/A	\$232,368.90	N/A
Total for all systems	\$3,777,238.87	\$3,453,987.03	N/A	\$2,733,791.29	N/A

Components

Actual Information	
Description	File Name
Structural engineering tower load study for well documented tower	<div>Component Description:Perform a Structural Tower Analysis</div> <div>Amount:\$3,000.00</div>

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Tall Tower (greater than 500')

**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

**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:** \$39,834.30

**Component Description:** WAND-410-  
Existing Primary  
Tower Tower  
Equipment and  
Rigging - Tall  
Tower

**Amount:** \$54,933.00

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## 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
<b>Outside Professional Services</b>	<b>\$249,615.10</b>	<b>\$239,610.10</b>		<b>\$81,934.00</b>	
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$471.50	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



Attorney Fees and Other Matters	<b>\$20,110.10</b>	\$20,110.10	Please see the attached invoices from COOLEY (Attorneys at law) # 1777272, 1793256 and 1800012	\$17,094.50	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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 FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$0.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$0.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A

Project management of the transition	\$94,010.00	\$90,750.00	See Justifying Quote - WAND Strategic Support Quote Widelity	\$64,368.00	N/A
<b>Sub-total</b>	\$249,615.10	\$239,610.10	N/A	\$81,934.00	N/A
<b>Total for all systems</b>	\$3,777,238.87	\$3,453,987.03	N/A	\$2,733,791.29	N/A

## Components

Actual Information	
Description	File Name
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<div> <b>Component Description:</b> WAND-550-Attorney Prepare and File Construction Permit Application (Main) </div> <div> <b>Amount:</b> \$471.50 </div> <div> <b>Component Description:</b> WAND-550-Attorney Prepare and File Construction Permit Application (Main) </div> <div> <b>Amount:</b> \$1,612.50 </div>
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.

Attorney Fees and Other  
Matters

<b>Component Description:</b>	Emails re quarterly transition progress report and FCC update to cost catalog prices
<b>Amount:</b>	\$180.00
<b>Component Description:</b>	Email with station engineers re FCC repack quarterly progress report
<b>Amount:</b>	\$270.00
<b>Component Description:</b>	Email with K. Wilkowski and station staff re FCC site visits
<b>Amount:</b>	\$1,170.00
<b>Component Description:</b>	Email with station staff re FCC quarterly repack progress report
<b>Amount:</b>	\$348.00
<b>Component Description:</b>	Fees
<b>Amount:</b>	\$5,743.00
<b>Component Description:</b>	Conference call and email with R. Gunther re quarterly repack progress report
<b>Amount:</b>	\$1,093.00
<b>Component Description:</b>	Email with engineering staff re second tranche of repack funding
<b>Amount:</b>	\$90.00

	<b>Component Description:</b> Email with K. Wilkowski re FCC repack notice on potential fraud <b>Amount:</b> \$90.00
	<b>Component Description:</b> Fees <b>Amount:</b> \$7,348.50
	<b>Component Description:</b> Fees <b>Amount:</b> \$762.00
Comprehensive coverage verification via field study, if needed	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 FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Exposure Measurements	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	Information not provided.
Project management of the transition	<b>Component Description:</b> Project Management <b>Amount:</b> \$4,691.15  <b>Component Description:</b> Project Management <b>Amount:</b> \$2,045.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,710.05

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,016.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,587.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,743.75

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,135.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,060.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,480.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,908.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,388.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,156.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,798.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,477.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,035.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,342.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,016.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,914.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,586.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,496.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,990.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$241.75

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,809.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,324.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,426.85

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**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
<b>Other Expenses</b>	<b>\$20,272.00</b>	<b>\$18,487.00</b>		<b>\$15,472.00</b>	
Rental of heavy equipment	<i>\$2,500.00</i>	\$2,500.00	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
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	\$0.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	\$0.00	N/A



MVPD Notification of Channel Change	<b>\$5,692.00</b>	\$5,692.00	Please see WAND Medical 2nd Set Date Change EST- 001703 and WAND Medical 2nd Set Date Change EST- 001704 *Estimate changed per the FCC*	\$5,692.00	N/A
<b>Sub-total</b>	\$20,272.00	\$18,487.00	N/A	\$15,472.00	N/A
<b>Total for all systems</b>	\$3,777,238.87	\$3,453,987.03	N/A	\$2,733,791.29	N/A

## Components

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

MVPD Notification of  
Channel Change

**Component Description:**

MVPD  
Notification  
Services

**Amount:**

\$2,846.00

**Component Description:**

MVPD  
Notification  
Services

**Amount:**

\$2,846.00

**Cost  
Information****Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,777,238.87	\$3,453,987.03	\$2,733,791.29

**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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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.

<p>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.</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><b>Keith Wilkowski</b>  <i>VP, Legal &amp; Government Affairs</i></p> <p>04/21/2020</p>

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"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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><b>Keith Wilkowski</b>  <i>VP, Legal &amp; Government Affairs</i></p> <p>04/21/2020</p>

## Attachments