



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **22108** | Service: **DTV** | Call **WFWA** | Channel: **18 (UHF)** |
ID: | Sign:
File **0000027861**
Number:
FRN: **0007158843** | Date **07/25**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	App Type
FORT WAYNE PUBLIC TELEVISION, INC. Doing Business As: FORT WAYNE PUBLIC TELEVISION, INC.	2501 EAST COLISEUM BOULEVARD FORT WAYNE, IN 46805 United States	+1 (260) 484-8839	brucehaines@wfw.org	Not Pro

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
Robert Gehman <i>ConsultingEngineer Kessler and Gehman Associates, Inc.</i>	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	bob@kesslerandge.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	Map & analyze tower; modify if needed. Rep transmitter and antenna. Acquire interim ant system to keep station on air while replacing antenna and for the duration of the phase. S attached Transition Plan.

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 N
	Use	Primary (Ma
	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	DTT5CSWL
	Year	2013
	Type	Solid State
	Solid State Cooling	Liquid Coole
	Solid State Power Capacity	9.6 kW

Primary
Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Ma
	Change Type	Purchase N
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TBD
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Coole
	Solid State Power capacity	10 kW
	Justification for New Transmitter	Manufacture existing transmitter i of business no support i available for existing transmitter.

Primary
Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A

HVAC Service	Does the replacement transmitter require HVAC Service?	No
	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
Additional Interior RF System	Additional Interior RF System for new transn
Standby Exciter and Switch	Standby Exciter with Automatic Change Ove Switch

Antennas

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

Primary
Antenna

Add 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 this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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)	152.8 kW
	Manufacturer	

Model	TFU-28GTH-04 DC
Year	2004

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Ma
	Description of Use	N/A
	Change Type	Purchase N
	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	Horizontal
	Type	Slotted Coa
	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)	109.0 kW
	Manufacturer	
	Model	TBD
	Year	2018

	Justification for New Antenna	The existing primary antenna is a single channel slot coaxial which cannot accommodate the assigned channel.
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**Primary
Antenna**

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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	6 1/8 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

**Primary
Antenna**

Other Antenna Cost Not Listed
Information not provided.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase N
	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	Horizontal
	Type	Slotted Coa
	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)	152.8 kW
	Manufacturer	
	Model	TBD
	Year	2018

	Justification for New Antenna	An interim antenna is necessary to keep station the air during primary antenna replacement for the duration of the assignment phase.
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**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?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Interim
Antenna**

Other Antenna Cost Not Listed

Information not provided.

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	Utilize Existing
		Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
		Type	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	770 feet per

Primary Transmission Line	Other Transmission Line Expenses Not Listed	
	Name	Description
	Primary Line Sweep	Sweep line to confirm operation on new channels

Primary
Transmission
Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase N
	Use	Primary (Ma
	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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	770 feet per

Primary
Transmission
Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Ma
	Description of Use	N/A
	Change Type	Purchase N
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	4 1/16 inch
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	775 feet per
	Justification for New Transmission Line	A sweep wa made of the existing 6-1/ line, which f Station is replacing lin with the sm size that me the power a attenuation requirement

Primary
Transmission
Line

Other Transmission Line Expenses Not Listed

Information not provided.

Interim Transmission Line	New Transmission Line		
	Section	Question	Response
	New Transmission Line Costs	Use	Interim
		Description of Use	N/A
		Change Type	Purchase N
		Type	Flexible Air
		Diameter	3 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
		Length	550 feet per
		Justification for New Transmission Line	An interim transmissior is necessary the interim antenna to k station on th during prime antenna replacement for the durat the assigner phase.

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 Exist
	Tower Use	Primary (Ma
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1030891
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 06' 13.0
	Longitude (NAD83)	085° 11' 28.
	Overall Structure Height	747.04 feet
	Support Structure Height	695.53 feet
	Ground Elevation Above Mean Sea Level (AMSL)	813.64 feet
	Structure Type	TOWER - F Standing or Guyed Struc

	Tower Owner	FORT WAY PUBLIC TELEVISION
	Date Constructed	07/01/1988

**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
59132	WAJI	FM

Other Types of Users

Users
WINM
ATF
DEA
NOAA
INDDC
FBI

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcement 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
Weather Delays	Delay charges caused by the tower crew not to work due to inclement weather

**Outside
Professional
Services
Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	183
	Explanation	It will be necessary to schedule and coordinate multiple vendors to complete progress reports and update Schedule 35. Station does not have available personnel or personnel trained in project management for such complex projects.
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	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A

	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting 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	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	No
	Additional Field Engineering Service	Yes
	Number of Days	22

	Justification	It will be necessary to survey the site, plan the equipment, develop specification, purchasing, oversee multiple vendor RF projects. State does not have available personnel or personnel trained in such services.
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Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Engineering Services	Engineering services related to the repack not already included in predetermined 399 categories
Other Legal Services	Legal services related to the repack not already included in predetermined 399 categories

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?	Yes
	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
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Bank Fee	Increase and Renew Bank Line of Credit, plus estimate for Interest for a one year period
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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 Justifi
Primary Transmitter TBD	\$728,450.00	\$700,500.00		\$208,233.46	
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N.
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N.
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N.
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	N/A	N.
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	N/A	\$206,773.46	N.
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	\$1,460.00	N.
Sub-total	\$728,450.00	\$700,500.00	N/A	\$208,233.46	N.
Total for all systems	\$2,305,354.00	\$2,077,399.60	N/A	\$711,555.97	N.

Components

Actual Information Description	File Name
Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
Standby Exciter and Switch	Information not provided.
Additional Interior RF System	Information not provided.

<div>UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW</div>	<div><div><div>Component Description:</div><div>Amount:</div></div><div>Second payment; one third due prior to shipping \$103,386.73</div></div> <div><div>Component Description:</div><div>Amount:</div></div> <div>One third down payment for transmitt WFWA \$103,386.73</div>
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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 Justifi
Interim Antenna TBD	\$226,240.00	\$130,100.00		\$27,550.50	
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$71,562.50	N/A	\$14,113.00	N.
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N.
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N.

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$13,437.50	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$13,437.50	N.
Primary Antenna TBD	\$266,030.00	\$253,100.00		\$100,000.00	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N.
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,125.00	N.
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$235,000.00	N/A	\$96,875.00	N.
Sub-total	\$492,270.00	\$383,200.00	N/A	\$127,550.50	N.
Total for all systems	\$2,305,354.00	\$2,077,399.60	N/A	\$711,555.97	N.

Components

Actual Information Description	File Name
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<p>Component Description: Balance of purchase price to vendor for Interim Antenna, plu added shipping, WF</p> <p>Amount: \$14,113.00</p>
Sweep test of existing antenna	Information not provided.

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Component Description:	Down Payment for Interim Antenna WF
	Amount:	\$13,437.50
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Component Description:	Sweep tests, which actually for the new primary antenna.
	Amount:	WFWA \$3,125.00
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Component Description:	Down payment for Primary Antenna
	Amount:	WFWA \$96,875.00
	Component Description:	Dummy to Delete Component
	Amount:	N/A

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 Justifi
Interim Transmission Line	\$32,450.00	\$30,800.00		\$22,704.00	
Flexible Air Transmission Line - dielectric, 3"	\$32,450.00	\$30,800.00	N/A	\$22,704.00	N.
Primary Transmission Line	\$6,250.00	\$6,250.00		\$6,250.00	
Primary Line Sweep	<i>\$6,250.00</i>	\$6,250.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Sweep needed to confirm acceptability of existing line on assigned channel.	\$6,250.00	N.
Primary Transmission Line	\$110,050.00	\$71,763.10		\$35,881.55	
Rigid Transmission Line - copper, 4 1 /16"	\$110,050.00	\$71,763.10	N/A	\$35,881.55	N.
Sub-total	\$148,750.00	\$108,813.10	N/A	\$64,835.55	N.
Total for all systems	\$2,305,354.00	\$2,077,399.60	N/A	\$711,555.97	N.

Components

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 3"	<div><div>Component Description:</div><div>Interim Transmission Line</div><div>Amount:</div><div>\$22,704.00</div></div>
Primary Line Sweep	<div><div>Component Description:</div><div>Sweep of existing primary line on post transition channel 18</div><div>Amount:</div><div>\$6,250.00</div></div>
Rigid Transmission Line - copper, 4 1/16"	<div><div>Component Description:</div><div>50% down payment on the new primary line equipment and material</div><div>Amount:</div><div>\$35,881.55</div></div>

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 Justifi
Primary Tower TOWER	\$660,300.00	\$627,500.00		\$232,236.15	
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	\$99,525.15	N.
Weather Delays	<i>\$2,500.00</i>	\$2,500.00	N/A	\$2,500.00	N.
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$119,461.00	N.
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$10,750.00	N.
Sub-total	\$660,300.00	\$627,500.00	N/A	\$232,236.15	N.
Total for all systems	\$2,305,354.00	\$2,077,399.60	N/A	\$711,555.97	N.

Components

Actual Information	Description	File Name
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Tall Tower (greater than 500')	Component Description:	Down payment for Primary Antenna Installation WFWA
	Amount:	\$58,022.65
	Component Description:	50% down payment for the installation of new primary transmission line
	Amount:	\$41,502.50
Weather Delays	Component Description:	Charges for tower crane due to delays caused by inclement weather
	Amount:	\$2,500.00
Major tower reinforcement /modifications	Component Description:	Down Payment for Tower Modification services
	Amount:	\$108,836.00
	Component Description:	Geotechnical survey and report for tower foundation analysis WFWA
	Amount:	\$6,125.00
	Component Description:	Tower Reinforcing Analysis and Design WFWA
	Amount:	\$4,500.00

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study		
	Component Description:	Balance due for Tower Structural Analysis. See WFWA Structural Analysis - Quote, attached.
	Amount:	\$2,000.00
	Component Description:	50 percent down payment for Structural Analysis and Report. See WFWA Structural Analysis - Quote, attached.
	Amount:	\$2,000.00
	Component Description:	Tower Mapping and Assessment
	Amount:	\$6,750.00

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
Outside Professional Services	\$202,034.00	\$184,386.50		\$70,180.82	
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,686.50	A legal services invoice for STA was inadvertently included in this category, which caused the amount to be exceeded.	\$1,686.50	Invoice 28 inadvertent
Other Legal Services	<i>\$10,000.00</i>	\$10,000.00	N/A	\$2,937.50	
Other Engineering Services	<i>\$20,000.00</i>	\$20,000.00	N/A	\$8,187.50	
Additional Field Engineering Service, 22 Days	<i>\$24,000.00</i>	\$24,000.00	N/A	\$6,934.98	
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$33,486.84	

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$675.00
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$425.00
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	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
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,095.00	WFWA_KG fc
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,500.00	WFWA_KG fc
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$2,500.00	
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$151.50	
Project management of the transition	\$28,914.00	\$17,450.00	N/A	\$7,601.00	
Sub-total	\$202,034.00	\$184,386.50	N/A	\$70,180.82	
Total for all systems	\$2,305,354.00	\$2,077,399.60	N/A	\$711,555.97	

Components

Actual Information Description	File Name
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Prepare request for Special Temporary Authorization	<table> <tr> <td data-bbox="799 174 1107 210">Component Description:</td><td data-bbox="1243 174 1505 246">Engineering for STA for WFWA</td></tr> <tr> <td data-bbox="799 257 911 293">Amount:</td><td data-bbox="1243 257 1361 293">\$1,535.00</td></tr> <tr> <td data-bbox="799 398 1107 434">Component Description:</td><td data-bbox="1243 398 1442 434">Planning for STA</td></tr> <tr> <td data-bbox="799 436 911 472">Amount:</td><td data-bbox="1243 436 1340 472">\$151.50</td></tr> </table>	Component Description:	Engineering for STA for WFWA	Amount:	\$1,535.00	Component Description:	Planning for STA	Amount:	\$151.50
Component Description:	Engineering for STA for WFWA								
Amount:	\$1,535.00								
Component Description:	Planning for STA								
Amount:	\$151.50								
Other Legal Services	<table> <tr> <td data-bbox="799 609 1107 645">Component Description:</td><td data-bbox="1243 609 1505 719">Other legal services related to the repack c WFWA</td></tr> <tr> <td data-bbox="799 730 911 766">Amount:</td><td data-bbox="1243 730 1340 766">\$599.00</td></tr> <tr> <td data-bbox="799 871 1107 907">Component Description:</td><td data-bbox="1243 871 1505 981">Other legal services related to the repack c WFWA</td></tr> <tr> <td data-bbox="799 992 911 1028">Amount:</td><td data-bbox="1243 992 1361 1028">\$2,338.50</td></tr> </table>	Component Description:	Other legal services related to the repack c WFWA	Amount:	\$599.00	Component Description:	Other legal services related to the repack c WFWA	Amount:	\$2,338.50
Component Description:	Other legal services related to the repack c WFWA								
Amount:	\$599.00								
Component Description:	Other legal services related to the repack c WFWA								
Amount:	\$2,338.50								
Other Engineering Services	<table> <tr> <td data-bbox="799 1158 1107 1193">Component Description:</td><td data-bbox="1243 1158 1505 1312">Engineering services related to preparation 399 actual cost invoice and RF design</td></tr> <tr> <td data-bbox="799 1323 911 1359">Amount:</td><td data-bbox="1243 1323 1361 1359">\$8,187.50</td></tr> </table>	Component Description:	Engineering services related to preparation 399 actual cost invoice and RF design	Amount:	\$8,187.50				
Component Description:	Engineering services related to preparation 399 actual cost invoice and RF design								
Amount:	\$8,187.50								

<p>Additional Field Engineering Service, 22 Days</p>	<table> <tr> <td data-bbox="801 174 1107 210">Component Description:</td><td data-bbox="1243 174 1506 286">On Site Equipment Inventory and Facilities survey WFWA</td></tr> <tr> <td data-bbox="801 297 911 333">Amount:</td><td data-bbox="1243 297 1361 333">\$3,934.98</td></tr> <tr> <td data-bbox="801 434 1107 470">Component Description:</td><td data-bbox="1243 434 1506 546">TPO calculations, layout of transmitter and RF system for WFWA</td></tr> <tr> <td data-bbox="801 557 911 593">Amount:</td><td data-bbox="1243 557 1361 593">\$2,400.00</td></tr> <tr> <td data-bbox="801 692 1107 728">Component Description:</td><td data-bbox="1243 692 1506 804">RF Field Engineering Services, Design of transmitter facilities</td></tr> <tr> <td data-bbox="801 815 911 851">Amount:</td><td data-bbox="1243 815 1337 851">\$600.00</td></tr> <tr> <td data-bbox="801 952 1107 987">Component Description:</td><td data-bbox="1243 952 1506 1021">On Site Equipment Inventory and Facility Survey</td></tr> <tr> <td data-bbox="801 1032 911 1068">Amount:</td><td data-bbox="1243 1032 1361 1068">\$3,934.98</td></tr> </table>	Component Description:	On Site Equipment Inventory and Facilities survey WFWA	Amount:	\$3,934.98	Component Description:	TPO calculations, layout of transmitter and RF system for WFWA	Amount:	\$2,400.00	Component Description:	RF Field Engineering Services, Design of transmitter facilities	Amount:	\$600.00	Component Description:	On Site Equipment Inventory and Facility Survey	Amount:	\$3,934.98
Component Description:	On Site Equipment Inventory and Facilities survey WFWA																
Amount:	\$3,934.98																
Component Description:	TPO calculations, layout of transmitter and RF system for WFWA																
Amount:	\$2,400.00																
Component Description:	RF Field Engineering Services, Design of transmitter facilities																
Amount:	\$600.00																
Component Description:	On Site Equipment Inventory and Facility Survey																
Amount:	\$3,934.98																
<p>Comprehensive coverage verification via field study, if needed</p>	<table> <tr> <td data-bbox="801 1196 1107 1232">Component Description:</td><td data-bbox="1243 1196 1506 1232">Field Services for WFWA</td></tr> <tr> <td data-bbox="801 1243 911 1279">Amount:</td><td data-bbox="1243 1243 1361 1279">\$3,000.00</td></tr> <tr> <td data-bbox="801 1379 1107 1415">Component Description:</td><td data-bbox="1243 1379 1506 1449">RF Field Engineering Services</td></tr> <tr> <td data-bbox="801 1460 911 1496">Amount:</td><td data-bbox="1243 1460 1374 1496">\$30,486.84</td></tr> </table>	Component Description:	Field Services for WFWA	Amount:	\$3,000.00	Component Description:	RF Field Engineering Services	Amount:	\$30,486.84								
Component Description:	Field Services for WFWA																
Amount:	\$3,000.00																
Component Description:	RF Field Engineering Services																
Amount:	\$30,486.84																
<p>FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase</p>	<table> <tr> <td data-bbox="801 1628 1107 1664">Component Description:</td><td data-bbox="1243 1628 1506 1740">Services related to the preparation of FAA Form 7460-1</td></tr> <tr> <td data-bbox="801 1751 911 1787">Amount:</td><td data-bbox="1243 1751 1337 1787">\$125.00</td></tr> <tr> <td data-bbox="801 1888 1107 1924">Component Description:</td><td data-bbox="1243 1888 1506 1957">Prepare and file FAA form 7460-1 for WFWA</td></tr> <tr> <td data-bbox="801 1968 911 2004">Amount:</td><td data-bbox="1243 1968 1337 2004">\$550.00</td></tr> </table>	Component Description:	Services related to the preparation of FAA Form 7460-1	Amount:	\$125.00	Component Description:	Prepare and file FAA form 7460-1 for WFWA	Amount:	\$550.00								
Component Description:	Services related to the preparation of FAA Form 7460-1																
Amount:	\$125.00																
Component Description:	Prepare and file FAA form 7460-1 for WFWA																
Amount:	\$550.00																

ASR modification (prepare FCC Form 854)	<p>Component Description: Preparation and filing ASR</p> <p>Amount: \$425.00</p>
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<p>Component Description: Form 2100</p> <p>Amount: \$145.50</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	<p>Component Description: Form 2100</p> <p>Amount: \$95.00</p> <p>Component Description: Engineering section of Form FCC Constructive Permit Application Main Facility WFWA</p> <p>Amount: \$2,000.00</p>
Perform engineering study for new channel assignment and antenna development	<p>Component Description: Engineering study for new channel assignment and antenna development WFWA</p> <p>Amount: \$3,500.00</p>

Prepare and or review reimbursement form	Component Description: Outside Professional Services and Prepare and Review FCC Form 399 for reimbursement Amount: \$2,500.00
Address transition timing and coordination issues w/ other stations and wireless	Component Description: Timing issues related to early transition under Mobile agreement Amount: \$151.50
Project management of the transition	Component Description: Legal services - Review Public Notice on reimbursement Amount: \$112.00 Component Description: Review FCC channel assignment and Form 1876 Amount: \$101.00 Component Description: Email regarding WFW channel reassignment Amount: \$202.00 Component Description: Outside Project Management Services Form 399 Actual Cost information for WFWA Amount: \$300.00 Component Description: Legal presentation relating to the FCC reimbursement process Amount: \$404.00

Component Description:	Email regarding FCC webinar
Amount:	\$50.50
Component Description:	Review and email re FCC Public Notice
Amount:	\$56.00
Component Description:	Legal services - announcing the FCC's visit audits
Amount:	\$56.00
Component Description:	Email regarding TV incentive auction
Amount:	\$50.50
Component Description:	Prepare and file form 387 progress report WFWA
Amount:	\$225.00
Component Description:	FCC construction perr
Amount:	\$468.00
Component Description:	Legal consultation related to Quarterly Reports for WFWA
Amount:	\$50.50
Component Description:	Project management & preparation and submission of Form 387 for 4Q2017 WFWA
Amount:	\$1,005.00

Component Description:	Review FCC Public Notice
Amount:	\$56.00
Component Description:	Legal advice related to Quarterly progress report
Amount:	\$50.50
Component Description:	Review FCC Decision
Amount:	\$56.00
Component Description:	Email regarding FCC Auction Closing
Amount:	\$50.50
Component Description:	Legal services related reimbursements
Amount:	\$353.50
Component Description:	Legal Billing - Progress
Amount:	\$1,568.00
Component Description:	Review Correspondence re filing date.
Amount:	\$39.00
Component Description:	Review FCC Procedures
Amount:	\$56.00
Component Description:	Outside Project Management Services Form 387 Progress Report 4Q2017
Amount:	\$225.00

	Component Description:	Review FCC Public Notice
	Amount:	\$56.00
	Component Description:	Legal - Re Filing Form 399
	Amount:	\$1,967.50
	Component Description:	Outside Project Management Services Form 387 Progress Report
	Amount:	\$300.00

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 Justification
Other Expenses	\$73,550.00	\$73,000.00		\$8,519.49	
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$5,247.50	N
Bank Fee	<i>\$5,000.00</i>	\$5,000.00	Item does not have a predetermined cost	\$1,500.00	N
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	Research and notify MVPDs of the channel change carrying station programming	\$125.00	N
Non-zoning permits	<i>\$5,000.00</i>	\$5,000.00	Local building permits for electrical work and tower modification work.	N/A	N
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N
Equipment Storage	<i>\$10,000.00</i>	\$10,000.00	N/A	\$434.09	N
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N

Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	Shipping from factory to site for transmitter, primary antenna and interim antenna system.	\$1,212.90	N
Sub-total	\$73,550.00	\$73,000.00	N/A	\$8,519.49	N
Total for all systems	\$2,305,354.00	\$2,077,399.60	N/A	\$711,555.97	N

Components

Actual Information Description	File Name
DTV Medical Facility Notification	<p>Component Description: Medical Facility Notifications for WFV</p> <p>Amount: \$3,310.00</p> <p>Component Description: Review of Medical notifications</p> <p>Amount: \$125.00</p> <p>Component Description: Preparation and distribution of Medical notifications and certification.</p> <p>Amount: \$1,812.50</p>
Bank Fee	<p>Component Description: The is the amount of debit memo to pay th</p> <p>Amount: bank fee for WFWA \$1,500.00</p>

MVPD Notification of Channel Change	<p>Component Description: Review of MVPD notifications</p> <p>Amount: \$125.00</p>
Non-zoning permits	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Equipment Storage	<p>Component Description: Storage of antenna a tower parts during rigging and tower modification work for WFWA</p> <p>Amount: \$434.09</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	<p>Component Description: Freight charges for shipping the Interim transmission line.</p> <p>Amount: \$531.59</p> <p>Component Description: Freight for Interim Transmission Line</p> <p>Amount: \$561.31</p> <p>Component Description: Offloading and delivery of antenna for WFWA</p> <p>Amount: \$120.00</p>

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$2,305,354.00	\$2,077,399.60
			\$711,555.97

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

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	<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).	

<p>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.</p> <p>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.</p> <p>7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <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>Robert Geh <i>Consulting Engineer</i></p> <p>07/25/2018</p>

Certification

Section	Question	Response
Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR 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).	
	<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.
8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<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>Robert Geh <i>Consulting Engineer</i> 07/25/2018</p>

Attachments