



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **22108** | Service: **DTV** | Call **WFWA** | Channel: **18 (UHF)** |  
ID:  
File **0000027861**  
Number:  
FRN: **0007158843** | Date **05/31**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Appl Type
<b>FORT WAYNE PUBLIC TELEVISION, INC.</b> 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-I Profi

## 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>Robert Gehman</b> <i>ConsultingEngineer</i> <i>Kessler and Gehman</i> <i>Associates, Inc.</i>	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332- 3157	bob@kesslerandgehi 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. Repl transmitter and antenna. Acquire interim ante system to keep station on air while replacing antenna and for the duration of the phase. Se 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
<b>Existing Transmitter Description</b>	Type of change	Purchase Ne
	Use	Primary (Mai
	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	DTT5CSWU
	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 (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TBD
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	10 kW
	Justification for New Transmitter	Manufacture existing transmitter is of business age and no support is 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

<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>Additional Interior RF System</b>	Additional Interior RF System for new transm
<b>Standby Exciter and Switch</b>	Standby Exciter with Automatic Change Over 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 Ne
	Antenna Use	Primary (Mai
	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 Coax
	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 (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	Horizontal
	Type	Slotted Coax
	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 slotted coaxial which cannot accommodate the assigned channel.
--	-------------------------------	---

**Primary  
Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<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**  
Information not provided.

**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	Horizontal
	Type	Slotted Coax
	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 ante replacement for the durati of the assign phase.
--	-------------------------------	---

**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?	Yes
<b>Sweep Test</b>	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

**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 Ne
	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 transmission is necessary the interim antenna to k station on the during prima antenna replacement for the durati of the assign 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 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?	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' 28.0"
	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 - Free Standing or Guyed Structure



	Tower Owner	FORT WAYNE 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
<b>Engineering Study</b>	Please what type of engineering study is required, if any:	Study needs undocumented /poorly documented tower
<b>Tower Reinforcements</b>	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

Information not provided.

**Outside  
Professional  
Services  
Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	183
	Explanation	It will be necessary to schedule and coordinate multiple vendor complete progress report and update Schedule 39 Station does have available personnel or personnel trained in project management such complete projects.
<b>Outside RF consulting Engineering Services</b>	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
<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	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
<b>RF Field Engineering Services</b>	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, and oversee multiple vendor RF projects. State does not have available personnel or personnel trained in such services.
--	---------------	---

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Information not provided.

## 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
------	-------------

<b>Bank Fee</b>	Increase and Renew Bank Line of Credit, plu estimate for Interest for a one year period
-----------------	--

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 TBD	\$728,450.00	\$700,500.00		\$103,386.73	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	N/A	\$103,386.73	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	N/A	N/A
Sub-total	\$728,450.00	\$700,500.00	N/A	\$103,386.73	N/A
Total for all systems	\$2,182,954.00	\$2,003,100.00	N/A	\$501,461.10	N/A

Components

Actual Information Description	File Name
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<div>Component Description: One third down payment for transmitter WFWA</div> <div>Amount: \$103,386.73</div>



Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Standby Exciter and Switch	Information not provided.
Additional Interior RF System	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 TBD	\$226,240.00	\$130,100.00		\$27,550.50	
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/A
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/A
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/A
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/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N/A

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//
<b>Primary Antenna TBD</b>	<b>\$266,030.00</b>	<b>\$253,100.00</b>		<b>\$100,000.00</b>	
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//
<b>Sub-total</b>	<b>\$492,270.00</b>	<b>\$383,200.00</b>	<b>N/A</b>	<b>\$127,550.50</b>	<b>N//</b>
<b>Total for all systems</b>	<b>\$2,182,954.00</b>	<b>\$2,003,100.00</b>	<b>N/A</b>	<b>\$501,461.10</b>	<b>N//</b>

## Components

Actual Information Description	File Name
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Balance of purchase price to vendor for Interim Antenna, plus added shipping, WFWA \$14,113.00</p>
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Sweep test of existing antenna	Information not provided.	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Down Payment for Interim Antenna WFWA \$13,437.50</p>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Sweep tests, which are actually for the new primary antenna WFWA \$3,125.00</p>
UHF - High Power Top Mount (200- 1000 kW), One station antenna, horizontally polarized	<p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Down payment for Primary Antenna WFWA \$96,875.00</p> <p>Dummy to Delete Component N/A</p>

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	\$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/A
Primary Transmission Line	\$6,400.00	\$6,400.00		\$0.00	
Primary Line Sweep	\$6,400.00	\$6,400.00	Sweep needed to confirm acceptability of existing line on assigned channel.	N/A	N/A
Sub-total	\$38,850.00	\$37,200.00	N/A	\$22,704.00	N/A
Total for all systems	\$2,182,954.00	\$2,003,100.00	N/A	\$501,461.10	N/A

Components

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 3"	<div>Component Description: Interim Transmission Line</div> <div>Amount: \$22,704.00</div>
Primary Line Sweep	Information not provided.

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 Justification
Primary Tower TOWER	\$657,800.00	\$625,000.00		\$188,233.65	
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	\$58,022.65	N/A
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/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$119,461.00	N/A
Sub-total	\$657,800.00	\$625,000.00	N/A	\$188,233.65	N/A
Total for all systems	\$2,182,954.00	\$2,003,100.00	N/A	\$501,461.10	N/A

Components

Actual Information Description	File Name
Tall Tower (greater than 500')	<div><div>Component Description:</div><div>Amount:</div><div>Down payment for Primary Antenna Installation WFWA \$58,022.65</div></div>

<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<table> <tr> <td data-bbox="810 174 1114 208"><b>Component Description:</b></td><td data-bbox="1249 174 1501 365">Balance due for Tower Structural Analysis. See WFWA Structural Analysis - Quote, attached.</td></tr> <tr> <td data-bbox="810 376 916 409"><b>Amount:</b></td><td data-bbox="1249 376 1366 409">\$2,000.00</td></tr> <tr> <td data-bbox="810 517 1114 551"><b>Component Description:</b></td><td data-bbox="1249 517 1501 741">50 percent down payment for Structural Analysis and Report. See WFWA Structural Analysis - Quote, attached.</td></tr> <tr> <td data-bbox="810 752 916 786"><b>Amount:</b></td><td data-bbox="1249 752 1366 786">\$2,000.00</td></tr> <tr> <td data-bbox="810 893 1114 927"><b>Component Description:</b></td><td data-bbox="1249 893 1481 965">Tower Mapping and Assessment</td></tr> <tr> <td data-bbox="810 976 916 1010"><b>Amount:</b></td><td data-bbox="1249 976 1366 1010">\$6,750.00</td></tr> </table>	<b>Component Description:</b>	Balance due for Tower Structural Analysis. See WFWA Structural Analysis - Quote, attached.	<b>Amount:</b>	\$2,000.00	<b>Component Description:</b>	50 percent down payment for Structural Analysis and Report. See WFWA Structural Analysis - Quote, attached.	<b>Amount:</b>	\$2,000.00	<b>Component Description:</b>	Tower Mapping and Assessment	<b>Amount:</b>	\$6,750.00
<b>Component Description:</b>	Balance due for Tower Structural Analysis. See WFWA Structural Analysis - Quote, attached.												
<b>Amount:</b>	\$2,000.00												
<b>Component Description:</b>	50 percent down payment for Structural Analysis and Report. See WFWA Structural Analysis - Quote, attached.												
<b>Amount:</b>	\$2,000.00												
<b>Component Description:</b>	Tower Mapping and Assessment												
<b>Amount:</b>	\$6,750.00												
<p>Major tower reinforcement /modifications</p>	<table> <tr> <td data-bbox="810 1144 1114 1178"><b>Component Description:</b></td><td data-bbox="1249 1144 1489 1294">Geotechnical survey and report for tower foundation analysis WFWA</td></tr> <tr> <td data-bbox="810 1305 916 1339"><b>Amount:</b></td><td data-bbox="1249 1305 1366 1339">\$6,125.00</td></tr> <tr> <td data-bbox="810 1447 1114 1480"><b>Component Description:</b></td><td data-bbox="1249 1447 1489 1552">Tower Reinforcing Analysis and Design WFWA</td></tr> <tr> <td data-bbox="810 1563 916 1597"><b>Amount:</b></td><td data-bbox="1249 1563 1366 1597">\$4,500.00</td></tr> <tr> <td data-bbox="810 1704 1114 1738"><b>Component Description:</b></td><td data-bbox="1249 1704 1469 1809">Down Payment for Tower Modification services</td></tr> <tr> <td data-bbox="810 1821 916 1854"><b>Amount:</b></td><td data-bbox="1249 1821 1394 1854">\$108,836.00</td></tr> </table>	<b>Component Description:</b>	Geotechnical survey and report for tower foundation analysis WFWA	<b>Amount:</b>	\$6,125.00	<b>Component Description:</b>	Tower Reinforcing Analysis and Design WFWA	<b>Amount:</b>	\$4,500.00	<b>Component Description:</b>	Down Payment for Tower Modification services	<b>Amount:</b>	\$108,836.00
<b>Component Description:</b>	Geotechnical survey and report for tower foundation analysis WFWA												
<b>Amount:</b>	\$6,125.00												
<b>Component Description:</b>	Tower Reinforcing Analysis and Design WFWA												
<b>Amount:</b>	\$4,500.00												
<b>Component Description:</b>	Down Payment for Tower Modification services												
<b>Amount:</b>	\$108,836.00												

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	\$192,034.00	\$184,200.00		\$56,970.82	
Additional Field Engineering Service, 22 Days	<i>\$44,000.00</i>	\$44,000.00	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	\$550.00	
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	
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), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$151.50	
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_KGA for
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,500.00	WFWA_KGA for
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$151.50	
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$2,500.00	

Project management of the transition	\$28,914.00	\$27,450.00	N/A	\$7,601.00
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$0.00
<b>Sub-total</b>	\$192,034.00	\$184,200.00	N/A	\$56,970.82
<b>Total for all systems</b>	\$2,182,954.00	\$2,003,100.00	N/A	\$501,461.10

## Components

Actual Information Description	File Name	
Additional Field Engineering Service, 22 Days	<b>Component Description:</b>	On Site Equipment Inventory and Facilities survey WFWA
	<b>Amount:</b>	\$3,934.98
	<b>Component Description:</b>	TPO calculations, layout of transmitter and RF system for WFWA
	<b>Amount:</b>	\$2,400.00
	<b>Component Description:</b>	On Site Equipment Inv and Facility Survey
	<b>Amount:</b>	\$3,934.98
	<b>Component Description:</b>	RF Field Engineering Services, Design of transmitter facilities
	<b>Amount:</b>	\$600.00

Comprehensive coverage verification via field study, if needed	<b>Component Description:</b> RF Field Engineering Services	
	<b>Amount:</b> \$30,486.84	
	<b>Component Description:</b> Field Services for WFW	
	<b>Amount:</b> \$3,000.00	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	<b>Component Description:</b> Prepare and file FAA form 7460-1 for WFWA	
	<b>Amount:</b> \$550.00	
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b> Form 2100	
	<b>Amount:</b> \$145.50	
Prepare request for Special Temporary Authorization	<b>Component Description:</b> Planning for STA	
	<b>Amount:</b> \$151.50	
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	<b>Component Description:</b> Engineering section of Form FCC Construction Permit Application Main Facility WFWA	
	<b>Amount:</b> \$2,000.00	
	<b>Component Description:</b> Form 2100	
	<b>Amount:</b> \$95.00	

Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b> Engineering study for new channel assignment and antenna development WFWA <b>Amount:</b> \$3,500.00
Address transition timing and coordination issues w/ other stations and wireless	<b>Component Description:</b> Timing issues related to early transition under T Mobile agreement <b>Amount:</b> \$151.50
Prepare and or review reimbursement form	<b>Component Description:</b> Outside Professional Services and Prepare and Review FCC Form 399 for reimbursement <b>Amount:</b> \$2,500.00
Project management of the transition	<b>Component Description:</b> Review FCC channel assignment and Form 1876 <b>Amount:</b> \$101.00  <b>Component Description:</b> Email regarding WFWA channel reassignment <b>Amount:</b> \$202.00  <b>Component Description:</b> Outside Project Management Services, Form 399 Actual Cost information for WFWA <b>Amount:</b> \$300.00  <b>Component Description:</b> Legal presentation relating to the FCC reimbursement process <b>Amount:</b> \$404.00

<b>Component Description:</b>	Legal services - announcing the FCC si visit audits
<b>Amount:</b>	\$56.00

<b>Component Description:</b>	Prepare and file form 387 progress report WFWA
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Legal - Re Filing Form 399
<b>Amount:</b>	\$1,967.50

<b>Component Description:</b>	FCC construction perm
<b>Amount:</b>	\$468.00

<b>Component Description:</b>	Project management and preparation and submission of From 38 for 4Q2017 WFWA
<b>Amount:</b>	\$1,005.00

<b>Component Description:</b>	Outside Project Management Services, Form 387 Progress Report 4Q2017
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Legal Billing - Progress
<b>Amount:</b>	\$1,568.00

<b>Component Description:</b>	Review FCC Public Notice
<b>Amount:</b>	\$56.00

<b>Component Description:</b>	Legal services - Review Public Notice on reimbursement
<b>Amount:</b>	\$112.00
<b>Component Description:</b>	Email regarding FCC webinar
<b>Amount:</b>	\$50.50
<b>Component Description:</b>	Outside Project Management Services, Form 387 Progress Report
<b>Amount:</b>	\$300.00
<b>Component Description:</b>	Email regarding FCC Auction Closing
<b>Amount:</b>	\$50.50
<b>Component Description:</b>	Legal consultation related to Quarterly Reports for WFWA
<b>Amount:</b>	\$50.50
<b>Component Description:</b>	Email regarding TV incentive auction
<b>Amount:</b>	\$50.50
<b>Component Description:</b>	Review FCC Procedures
<b>Amount:</b>	\$56.00
<b>Component Description:</b>	Review Correspondence re filing date.
<b>Amount:</b>	\$39.00
<b>Component Description:</b>	Review FCC Decision
<b>Amount:</b>	\$56.00

	<b>Component Description:</b>	Legal services related to reimbursements
	<b>Amount:</b>	\$353.50
	<b>Component Description:</b>	Review FCC Public Notice
	<b>Amount:</b>	\$56.00
	<b>Component Description:</b>	Review and email re FCC Public Notice
	<b>Amount:</b>	\$56.00
	<b>Component Description:</b>	Legal advice related to Quarterly progress report
	<b>Amount:</b>	\$50.50
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

## 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
<b>Other Expenses</b>	<b>\$73,550.00</b>	<b>\$73,000.00</b>		<b>\$2,615.40</b>	
Equipment Storage	<i>\$10,000.00</i>	\$10,000.00	N/A	\$434.09	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	Shipping from factory to site for transmitter, primary antenna and interim antenna system.	\$681.31	N/A
Bank Fee	<i>\$5,000.00</i>	\$5,000.00	Item does not have a predetermined cost	\$1,500.00	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	Research and notify MVPDs of the channel change carrying station programming	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
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/A



Non-zoning permits	\$5,000.00	\$5,000.00	Local building permits for electrical work and tower modification work.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$73,550.00	\$73,000.00	N/A	\$2,615.40	N/A
<b>Total for all systems</b>	\$2,182,954.00	\$2,003,100.00	N/A	\$501,461.10	N/A

### Components

Actual Information Description	File Name
Equipment Storage	<p><b>Component Description:</b> Storage of antenna and tower parts during rigging and tower modification work for WFWA</p> <p><b>Amount:</b> \$434.09</p>
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> Offloading and delivery of antenna for WFWA</p> <p><b>Amount:</b> \$120.00</p> <p><b>Component Description:</b> Freight for Interim Transmission Line</p> <p><b>Amount:</b> \$561.31</p>
Bank Fee	<p><b>Component Description:</b> The amount of the debit memo to pay the bank fee for WFWA</p> <p><b>Amount:</b> \$1,500.00</p>

MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,182,954.00	\$2,003,100.00	\$501,461.10

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
<b>Submission of Estimated Expenses Statements</b>	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"><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><li>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).</li></ol>	

<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><b>Robert Gehl</b>  <i>Consulting Engineer</i></p> <p>05/31/2018</p>

**Certification**

Section	Question	Response
<b>Submission of Actual Cost Documentation Statements</b>	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"><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><li>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.</li></ol>	

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><b>Robert Gehl</b>  <i>Consulting Engineer</i>    05/31/2018</p>

## Attachments