Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **22108** | Service: **DTV** | Call Sign: **WFWA** | Channel: **18 (UHF)**

File Number: **0000027861**

FRN: **0007158843** | Date Submitted: **12/04/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	App Typ
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@wfwa.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 *ConsultingEngineer* *Kessler and Gehman Associates, Inc.*	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	bob@kesslerandgeh 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	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 (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 leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

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 N
	Antenna Use	Primary (Ma
	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 Coa
	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 ante is a single channel slot coaxial whic cannot accommoda the assigne channel.

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

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 t keep station the air durin primary ante replacemen for the durat the assigne phase.

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 Existi
	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	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 cha

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 inche
	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 sma 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 prima antenna replacemen for the durat the assigne 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 TELEVISIO
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
FBI
INDDC
NOAA
DEA
ATF
WINM

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study neede undocument /poorly documentec tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforceme 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 t schedule an coordinate multiple ven complete progress rep and update Schedule 39 Station does have availab personnel o personnel tr in project managemer such comple 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 t survey the s plan the equipment, develop specificatior purchasing, oversee mul vendor RF projects. Sta does not hav available personnel o personnel tr in such serv

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

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

Bank Fee	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 Justifi
Primary Transmitter TBD	**$728,450.00**	**$700,500.00**		**$338,750.04**	
Standby Exciter and Switch	***$25,000.00***	$25,000.00	N/A	N/A	N/
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	$494,500.00	$470,000.00	N/A	$315,449.20	N/
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	$21,840.84	N/
Transformer 3 phase/480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/
3" Rigid Conduit and Wiring (Cost per foot)	$5,200.00	$4,900.00	N/A	$1,460.00	N/
Additional Interior RF System	***$140,000.00***	$140,000.00	N/A	N/A	N/
Sub-total	$728,450.00	$700,500.00	N/A	$338,750.04	N/
Total for all systems	$2,305,354.00	$2,019,950.10	N/A	$999,143.32	N/

Components

Actual Information Description	File Name
Standby Exciter and Switch	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	**Component Description:** **Amount:**	GatesAir inv #TE10004590-2 Prima TX pmt 2 UL20181128jgv1 $103,386.73
	Component Description: **Amount:**	One third down payme for transmitter WFWA $103,386.73
	Component Description: **Amount:**	GatesAir inv #US0318728 Primary pmt 3 UL20181127jgv $108,675.74
Switchgear - industrial 800 amp	**Component Description:** **Amount:**	Hoagland inv #001836 Electrical UL20181128jgv1 $21,840.84
Transformer 3 phase/480v - 150 KVA	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	**Component Description:** **Amount:**	Extend existing concre pad to accommodate transmitter heat exchanger. Revised to clarify WFWA is also known as PBS39 $1,460.00
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 Justifi
Interim Antenna TBD	**$226,240.00**	**$72,650.50**		**$27,550.50**	
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/
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/
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/
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/
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$0.00	N/

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	$89,400.00	$14,113.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***	$14,113.00	N/
Primary Antenna TBD	**$266,030.00**	**$253,100.00**		**$149,667.13**	
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	$247,000.00	$235,000.00	N/A	$146,542.13	N/
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$3,125.00	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/
Sub-total	$492,270.00	$325,750.50	N/A	$177,217.63	N/
Total for all systems	$2,305,354.00	$2,019,950.10	N/A	$999,143.32	N/

Components

Actual Information Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
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	**Component Description:** **Amount:**	Down Payment for Interim Antenna WFW $13,437.50
Sweep test of existing antenna	Information not provided.	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	**Component Description:** **Amount:**	Balance of purchase price to vendor for Interim Antenna, plus added shipping, WFW $14,113.00
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	**Component Description:** **Amount:**	Down payment for Primary Antenna WFV $96,875.00
	Component Description: **Amount:**	Dummy to Delete Component N/A
	Component Description: **Amount:**	ERI inv #WFWA-TV-0 Antenna & line installation plus 1 gal aviation orange paint UL20181203jgv1 $49,667.13
Sweep test of existing antenna	**Component Description:** **Amount:**	Sweep tests, which ar actually for the new primary antenna. WFV $3,125.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	

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	***$6,250.00***	$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	$2,019,950.10	N/A	$999,143.32	N/

Components

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

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**		**$339,489.79**	
Major tower reinforcement /modifications	$421,000.00	$400,000.00	N/A	$226,714.64	N/
Tall Tower (greater than 500')	$210,500.00	$200,000.00	N/A	$99,525.15	N/
Weather Delays	***$2,500.00***	$2,500.00	N/A	$2,500.00	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	$339,489.79	N/
Total for all systems	$2,305,354.00	$2,019,950.10	N/A	$999,143.32	N/

Components

Actual Information Description	File Name

Major tower reinforcement /modifications	**Component Description:**	Down Payment for Tov Modification services
	Amount:	$108,836.00
	Component Description:	Geotechnical survey a report for tower foundation analysis WFWA
	Amount:	$6,125.00
	Component Description:	ERI inv #WFWA-TV-0(Tower reinforcements modifications UL20181203jgv1
	Amount:	$107,253.64
	Component Description:	Tower Reinforcing Analysis and Design WFWA
	Amount:	$4,500.00
Tall Tower (greater than 500')	**Component Description:**	Down payment for Primary Antenna Installation WFWA
	Amount:	$58,022.65
	Component Description:	50% down payment fo the installation of new primary transmission li
	Amount:	$41,502.50

Weather Delays	**Component Description:**	ERI inv #WFWA-TV-007A Weather Day UL20181204jgv1 ... NOTE this inv replaces erroneously submitted $2,500 ERI inv 51518
	Amount:	$2,500.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:**	50 percent down payment for Structural Analysis and Report. S WFWA Structural Analysis - Quote, attached.
	Amount:	$2,000.00
	Component Description:	Tower Mapping and Assessment
	Amount:	$6,750.00
	Component Description:	Balance due for Tower Structural Analysis. Se WFWA Structural Analysis - Quote, attached.
	Amount:	$2,000.00

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**		**$70,330.82**	
Other Legal Services	***$10,000.00***	$10,000.00	N/A	$2,937.50	
Additional Field Engineering Service, 22 Days	***$24,000.00***	$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	
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 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 inadverte 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
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	

Other Engineering Services	***$20,000.00***	$20,000.00	N/A	$8,187.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	N/A
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	$17,450.00	N/A	$7,751.00
Sub-total	$202,034.00	$184,386.50	N/A	$70,330.82
Total for all systems	$2,305,354.00	$2,019,950.10	N/A	$999,143.32

Components

Actual Information Description	File Name

Other Legal Services	**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
Additional Field Engineering Service, 22 Days	**Component Description:**	On Site Equipment Inventory and Facilitie survey WFWA
	Amount:	$3,934.98
	Component Description:	TPO calculations, layc 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 Inv and Facility Survey
	Amount:	$3,934.98
Comprehensive coverage verification via field study, if needed	**Component Description:**	RF Field Engineering Services
	Amount:	$30,486.84
	Component Description:	Field Services for WF\
	Amount:	$3,000.00

ASR modification (prepare FCC Form 854)	**Component Description:** **Amount:**	Preparation and filing ASR $425.00
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	**Component Description:** **Amount:**	Form 2100 $145.50
Prepare request for Special Temporary Authorization	**Component Description:** **Amount:** **Component Description:** **Amount:**	Engineering for STA fo WFWA $1,535.00 Planning for STA $151.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:** **Component Description:** **Amount:**	Form 2100 $95.00 Engineering section of Form FCC Constructio Permit Application Ma Facility WFWA $2,000.00
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Engineering study for new channel assignme and antenna development WFWA $3,500.00

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	**Component Description:** **Amount:**	Services related to the preparation of FAA 74 2 $125.00
	Component Description: **Amount:**	KGA inv #949-11 FAA 7460-1 filing UL20181128jgv1 $550.00
Other Engineering Services	**Component Description:** **Amount:**	Engineering services related to preparation 399 actual cost invoice and RF design $8,187.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	**Component Description:** **Amount:**	Timing issues related early transition under Mobile agreement $151.50
Prepare and or review reimbursement form	**Component Description:** **Amount:**	Outside Professional Services and Prepare and Review FCC Forn 399 for reimbursemen $2,500.00
Project management of the transition	**Component Description:** **Amount:**	Email regarding FCC Auction Closing $50.50

Component Description:	Legal Billing - Progres
Amount:	$1,568.00
Component Description:	Review FCC channel assignment and Form 1876
Amount:	$101.00
Component Description:	Legal presentation relating to the FCC reimbursement proces
Amount:	$404.00
Component Description:	Outside Project Management Services Form 399 Actual Cost information for WFWA
Amount:	$300.00
Component Description:	Outside Project Management Services Form 387 Progress Report
Amount:	$300.00
Component Description:	Review FCC Public Notice
Amount:	$56.00
Component Description:	Legal consultation related to Quarterly Reports for WFWA
Amount:	$50.50
Component Description:	Review FCC Decision
Amount:	$56.00

Component Description:	Legal advice related to Quarterly progress rep
Amount:	$50.50
Component Description:	Email regarding WFW channel reassignment
Amount:	$202.00
Component Description:	Legal services related reimbursements
Amount:	$353.50
Component Description:	Review and email re FCC Public Notice
Amount:	$56.00
Component Description:	Email regarding FCC webinar
Amount:	$50.50
Component Description:	Review Correspondenc re filing date.
Amount:	$39.00
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:	KGA inv #949-25 Form 387 2018 Q2 UL20181116jgv1
Amount:	$150.00

Component Description:	Review FCC Public Notice
Amount:	$56.00
Component Description:	Outside Project Management Services Form 387 Progress Report 4Q2017
Amount:	$225.00
Component Description:	Legal services - announcing the FCC s visit audits
Amount:	$56.00
Component Description:	FCC construction perr
Amount:	$468.00
Component Description:	Legal services - Revie Public Notice on reimbursement
Amount:	$112.00
Component Description:	Legal - Re Filing Form 399
Amount:	$1,967.50
Component Description:	Review FCC Procedu
Amount:	$56.00
Component Description:	Project management a preparation and submission of From 38 for 4Q2017 WFWA
Amount:	$1,005.00

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 Justifi
Other Expenses	**$73,550.00**	**$73,000.00**		**$8,519.49**	
MVPD Notification of Channel Change	***$2,000.00***	$2,000.00	Research and notify MVPDs of the channel change carrying station programming	$125.00	N
Develop and air announcement of upcoming channel change	***$0.00***	$0.00	N/A	N/A	N
Equipment Storage	***$10,000.00***	$10,000.00	N/A	$434.09	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
Disposal Costs (for equipment and other waste, net of any salvage value)	***$15,000.00***	$15,000.00	N/A	N/A	N
Non-zoning permits	***$5,000.00***	$5,000.00	Local building permits for electrical work and tower modification work.	N/A	N
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$5,247.50	N

Bank Fee	***$5,000.00***	$5,000.00	Item does not have a predetermined cost	$1,500.00	N
Sub-total	$73,550.00	$73,000.00	N/A	$8,519.49	N
Total for all systems	$2,305,354.00	$2,019,950.10	N/A	$999,143.32	N

Components

Actual Information Description	File Name
MVPD Notification of Channel Change	**Component Description:** Review of MVPD notifications **Amount:** $125.00
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	**Component Description:** Storage of antenna a tower parts during rigging and tower modification work for WFWA **Amount:** $434.09
Equipment Delivery and Handling Charges	**Component Description:** Offloading and delive of antenna for WFW **Amount:** $120.00 **Component Description:** Freight charges for shipping the Interim transmission line. **Amount:** $531.59 **Component Description:** Freight for Interim Transmission Line **Amount:** $561.31

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	**Component Description:** Medical Facility Notifications for WFV **Amount:** $3,310.00 **Component Description:** Review of Medical notifications **Amount:** $125.00 **Component Description:** Preparation and distribution of Medica notifications and certification. Correcte Inv number. **Amount:** $1,812.50
Bank Fee	**Component Description:** The is the amount of debit memo to pay th bank fee for WFWA **Amount:** $1,500.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$2,305,354.00	$2,019,950.10	$999,143.32

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.	
	1. The Authorized Person signing below certifies that he/she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).	

	5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund. 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred. 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Jeffrey C Gehman** *Engineering Associate* 12/04/2018

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 IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 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.

	9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	

Attachments