

(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 **12/03**

Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Apr 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 Name and Information Reimbursement Contact 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@kesslerandgelcom

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	Type of change	Purchase N
Description	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	
Manufacturer and Type	Model	DTT5CSWL
	Year	2013
	Туре	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 is of business 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

HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	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

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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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

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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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 assigned
	channel.

Other Antenna Costs

Section	Question	Response
Combiner for Shared	Do you need a Combiner for a Shared Antenna?	No
Antenna	Туре	
	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
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

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	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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 durin primary ante replacement
	for the durat
	the assigned
	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

า	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	Type of change	Utilize Existi
Line Description	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
	Туре	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

1	Name	Description
	Primary Line Sweep	Sweep line to confirm operation on new char

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission	Type of change	Purchase N
Line Description	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	Manufacturer	
Line Manufacturer and Type	Туре	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	Use	Primary (Ma
Costs	Description of Use	N/A
	Change Type	Purchase N
	Is this a request for upgraded equipment?	No
	Туре	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 for Station is replacing lin with the smasize that me the power all attenuation requirement

Other Transmission Line Expenses Not Listed

Transmission Information not provided.

Line

Primary

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line	Use	Interim
Costs	Description of Use	N/A
	Change Type	Purchase N
	Туре	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 the during prima antenna replacement for the durat the assigned phase.

Interim Other Transmission Line Expenses Not Listed
Transmission Information not provided.

Line

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	Type of change	Modify Exist
Description	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	Do you have a tower registration number?	Yes
Registration	ASR Number	1030891
Coordinates (NAD83 (Latitude (NAD83)	41° 06′ 13.0
North American Datum of 1983))	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 - For Standing or Guyed Structure

-	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 needs undocument /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 ven complete progress repand update. Schedule 38 Station does have available personnel to personnel train project managemer such complete 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	such comple projects. Yes Yes No Yes No 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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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 s
	plan the
	equipment,
	develop
	specification
	purchasing,
	oversee mu
	vendor RF
	projects. Sta
	does not ha
	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 catec
Other Legal Services	Legal services related to the repack not alreatincluded 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, 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	
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.
Standby Exciter and Switch	\$25,000.00	\$25,000.00	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	\$891,889.68	N

Actual	Information	Description	File Name
Actuai	information	Description	File Name

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Component Description:	GatesAir inv
		#US0318728 Primary pmt 3 UL20181127jgv
	Amount:	\$108,675.74
	Component Description:	One third down payme
	Amount:	for transmitter WFWA \$103,386.73
	Component Description:	GatesAir inv #TE10004590-2 Prima TX pmt 2
	Amount:	UL20181128jgv1 \$103,386.73
Switchgear - industrial 800 amp		
	Component Description:	Hoagland inv #001836 Electrical UL20181128jgv1
	Amount:	\$21,840.84
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Standby Exciter and Switch	Information not provided.	
3" Rigid Conduit and Wiring (Cost		
per foot)	Component Description:	Extend existing concrepad to accommodate transmitter heat exchanger. Revised to clarify WFWA is also known as PBS39
	Amount:	\$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.
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,
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,

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,
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	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	\$891,889.68	N,

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.
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
Side mount brackets for high 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:	Balance of purchase price to vendor for Interim Antenna, plus added shipping, WFW
	Amount:	\$14,113.00
Sweep test of existing antenna	Information not provided.	
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:	ERI inv #WFWA-TV-0 Antenna & line installation plus 1 gal aviation orange paint UL20181203jgv1
	Amount:	\$49,667.13
	Component Description:	Dummy to Delete Component
	Amount:	N/A
Sweep test of existing antenna		
	Component Description:	Sweep tests, which are actually for the new primary antenna. WF\
	Amount:	\$3,125.00

Elbow complex, single channel,	Information not provided.
at antenna input, per 6 1/8.	
feedline (if needed)	

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	\$891,889.68	N.

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:	50% down payment of the new primary line equipment and mater
	Amount:	\$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		\$232,236.15	
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,
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	\$2,019,950.10	N/A	\$891,889.68	N,

Actual Information Description	File Name

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

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Component Description: Balance due for Tow

Structural Analysis. § WFWA Structural Analysis - Quote,

attached.

Amount: \$2,000.00

Component Description: 50 percent down

payment for Structura Analysis and Report. See WFWA Structura

Analysis - Quote,

Amount: attached. \$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 Cos
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	
Other Engineering Services	\$20,000.00	\$20,000.00	N/A	\$8,187.50	
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	
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 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 inadvert
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	

Total for all systems	\$2,305,354.00	\$2,019,950.10	N/A	\$891,889.68	
Sub-total	\$202,034.00	\$184,386.50	N/A	\$70,330.82	
Project management of the transition	\$28,914.00	\$17,450.00	N/A	\$7,751.00	
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	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,500.00	WFWA_KG
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,095.00	WFWA_KG

Components

Actual Information Description	File Name

Other Legal Services		
	Component Description:	Other legal services related to the repack of WFWA
	Amount:	\$599.00
	Component Description:	Other legal services related to the repack of WFWA
	Amount:	\$2,338.50
Other Engineering Services	Component Description:	Engineering services related to preparation 399 actual cost invoic
	Amount:	and RF design \$8,187.50
Additional Field Engineering Service, 22 Days	Component Description:	On Site Equipment Inventory and Facilitie
	Amount:	survey WFWA \$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 In and Facility Survey
	Amount:	\$3,934.98

Comprehensive coverage verification via field study, if needed	Component Description: Amount:	RF Field Engineering Services \$30,486.84
	Component Description: Amount:	Field Services for WF\ \$3,000.00
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for	Component Description:	Services related to the preparation of FAA 74
height increase	Amount:	\$125.00
	Component Description:	KGA inv #949-11 FAA 7460-1 filing UL20181128jgv1
	Amount:	\$550.00
ASR modification (prepare FCC Form 854)	Component Description:	Preparation and filing
	Amount:	\$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:	Engineering for STA for WFWA \$1,535.00
	Component Description: Amount:	Planning for STA \$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	Component Description: Amount:	Form 2100 \$95.00
	Component Description: Amount:	Engineering section of Form FCC Construction Permit Application Markacility WFWA \$2,000.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Engineering study for new channel assignmand antenna development WFWA \$3,500.00
Address transition timing and coordination issues w/ other stations and wireless	Component Description:	Timing issues related
Stations and wholess	Amount:	early transition under Mobile agreement \$151.50

Decrease and as well-		
Prepare and or review reimbursement form	Component Description:	Outside Professional Services and Prepare and Review FCC Forn
	Amount:	399 for reimbursemen \$2,500.00
Project management of the transition	Component Description:	Email regarding FCC
	Amount:	Auction Closing \$50.50
	Component Description:	Review FCC Public Notice
	Amount:	\$56.00
	Component Description: Amount:	Legal Billing - Progres \$1,568.00
	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 proces
	Amount:	\$404.00
	Component Description:	Review Corresponden re filing date.
	Amount:	\$39.00
	Component Description:	Legal services - announcing the FCC s visit audits
	Amount:	\$56.00

Component Description: Email regarding WFW

channel reassignment

Amount: \$202.00

 Component Description:
 Project management ε

preparation and

submission of From 38 for 4Q2017 WFWA

Amount: \$1,005.00

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 consultation

related to Quarterly Reports for WFWA

Amount: \$50.50

Component Description: Prepare and file form

387 progress report

WFWA

Amount: \$225.00

Component Description: Email regarding TV

incentive auction

Amount: \$50.50

Component Description: Legal advice related to

Quarterly progress rep

Amount: \$50.50

Component Description: Review and email re

FCC Public Notice

Amount: \$56.00

Component Description: Legal - Re Filing Form

399

Amount: \$1,967.50

Component Description: Review FCC Decision

Amount: \$56.00

Component Description: Legal services related

reimbursements

Amount: \$353.50

Component Description: Legal services - Revie

Public Notice on reimbursement

Amount: \$112.00

Component Description: Review FCC channel

assignment and Form

1876

Amount: \$101.00

Component Description: KGA inv #949-25 Forn

387 2018 Q2 UL20181116jgv1

0.450.00

Amount: \$150.00

Component Description: Email regarding FCC

webinar

Amount: \$50.50

Component Description: FCC construction perr

Amount: \$468.00

Component Description: Outside Project

Management Services

Form 387 Progress Report

Amount: \$300.00

Component Description: Review FCC Procedui

Amount: \$56.00

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	\$891,889.68	N.

Components

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

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:	Preparation and distribution of Medica notifications and certification. Corrected
	Amount:	Inv number. \$1,812.50
	Component Description:	Medical Facility Notifications for WFV
	Amount:	\$3,310.00
	Component Description:	Review of Medical notifications
	Amount:	\$125.00
Bank Fee		
	Component Description:	The is the amount of debit memo to pay the 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	\$891,889.68

Reimburseme	nPStatios	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

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.

- 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 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.

Jeffrey C Gehman Engineering Associate

12/03/2018

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).

- 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.
- 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.

Jeffrey C Gehman Engineering Associate

12/03/2018

Attachments