

Federal Communications Commission

### (REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID:	37808	Service: DTV	Call Sign:	WLFG	Channel: 14 (UHF)
File Number:	00000	28111			
FRN: <b>00</b>	02058089	Date Submitted:	06/06 /2019		

### Applicant Name, Type, and Contact Information

### Applicant Information

Applicant	Address	Phone	Email	Applicant Type
Living Faith Ministries, Inc. Doing Business As: Living Faith Ministries, Inc.	P.O. Box 1867 Abingdon, VA 24210 United States	+1 (276) 676-3806	mike@livingfaithtv. com	Corporation

#### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Nam	e and Information	ition		
Contact Information	Applicant	Address	Phone	Email	
	<b>Timothy Z Sawyer</b> Technical Consultant T Z Sawyer Technical Consultants	2130 Hutchison Grove Court Suite 100 Falls Church, VA 22043 United States	+1 (703) 848- 2130	tzsawyer@tzsawyer. com	

Broadcaster	Question	Response
Information and Transition Plan	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	Please see attached exhibit titled "WLFG Exhibit for Modified Transition Plan (August 2018)".

Transmitters	Section	Question	Response
	Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary	Existing Transmitter Information			
Transmitter	Section	Question	Response	
	Existing Transmitter Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this transmitter currently shared with another station?	No	
		Is this transmitter currently in operating condition?	Yes	
	Existing Transmitter	Manufacturer		
	Manufacturer and Type	Model	QXD2	
		Year	2001	
		Туре	Inductive Output Tube	
		IOT Power Type	Two	
		Power Capacity	60.0 kW	

## **Existing Transmitter Information**

Primary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Primary (Main)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Manufacturer			
		Model	ULXTE-50		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	31.7 kW		
		Justification for New Transmitter	Existing tx cannot be rechanneled -210 MHz change in frequency. IOT operation not available, manufacturer no longer in business. See attached letter from manufacturer dated January 1, 2017.		

# Primary Other Transmitter Costs

Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	Yes

	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	200.0 feet
	Other Electrical Service	Yes
	Description	Transmitter disconnect service panel
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

See GatesAir Proposal Q-77816

# Primary Transmitter Other Transmitter Cost Not Listed Name Description RF Components for Install RF components and installation for main transmitter Channel 14 Cost Not Listed Additional Engineering

**RF** Accessories

Install Ch 14 filter and Mask	Install Ch 14 filter and transmitter mask fi
Mask Filter System	See GatesAir Proposal Q-77816
Transmitter Building Modification	See GatesAir Proposal Q-75623
Old Transmitter Removal	Remove old transmitter from site
Electrical	See GatesAir Proposal Q-77816
Installation and Proof	See GatesAir Proposal Q-77816
RF Consultant	Provide installation support services and review of associated systems during the installation of the primary transmitter

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Pescription of Use Ownership Owner Site Site Is the existing antenna shared with another station or stations? Is the existing antenna directional? Is antenna in operating condition? Is antenna located on or in close proximity to an antenna farm? Class Mounting Antenna position in stack Polarization Type Number of Stations Supported Number of Panels	No	
		Is antenna in operating condition?	Yes	
			No	
	Existing Antenna	Class	<ul> <li>N/A</li> <li>N/A</li> <li>N/A</li> <li>No</li> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>Side Mount</li> <li>Side Mount</li> <li>Not in Stack</li> <li>Horizontal</li> <li>Slotted Coaxial</li> <li>N/A</li> <li>N/A</li> </ul>	
	Manufacturer and Type	Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре		
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	1000.0 kW	

	Manufacturer	
	Model	2050-32BT (1.25)
	Year	1998

Primary	New Antenna Costs			
Antenna	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?	Yes	
		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		
	Manufacturer and Types	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels/Bays	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Design power capacity in use	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	479.0 kW	
		Manufacturer		

Model	ATW22H5- HTO12-14H
Year	2018
Justification for New Antenna	EXISTING ANTENNA CAN NOT BE RETUNED - CURRENTLY CH 49 - MOVING TO CH 14, 210 MHZ CHANGE IN FREQ.

# Primary Other Antenna Costs

Primary Antenna				
	Section	Question	Response	
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No	
		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 Channel	
		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<br/>AntennaOther Antenna Cost Not ListedInformation not provided.

Antenna	Section New Antenna Description	<b>Question</b> Use	Response
	New Antenna Description	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
-	New Antenna	Class	Full Power
	Manufacturer and Type	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	120.0 kW
		Manufacturer	
		Model	AL120-49- PM
		Year	2018

Justification for New Antenna	Interim
	Antenna
	will be
	necessary if
	expense for
	new tower
	is not
	approved in
	time for
	timely
	construction
	of new
	tower by
	Phase 2
	deadline.

## Interim

Antenna

**Other Antenna Costs** 

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an 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 Interim

Name	Description
Transmission Line Connectors	Transmission line interior interconnect segments and RF components (couplers /flanges)

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary	Existing Transmission Line			
Lii Ex Lii	n Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing transmission line shared with another station or stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and	Manufacturer		
	Type	Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 3/4 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	250 feet per run	

Primary	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		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	250 feet per run	
		Justification for New Transmission Line	NEW LINE SEGMENT LENGTH REQUIRED FOR CHANNEL CHANGE FROM CH 49 (OLD 19-3 /4' SEGMENTS) TO CHANNEL 14 (NEW 20' SEGMENTS).	

# Other Transmission Line Expenses Not Listed Transmission Line Description

Transmission Line Bridge	Cost estimated; actual length will determine
	actual cost.

Interim	New Transmission Line			
Transmission	n Section	Question	Response	
	New Transmission Line	Use	Interim	
	Costs	Description of Use	N/A	
		Change Type	Purchase New	
		Туре	Flexible Air	
		Diameter	4 inches	
		Segment Length	N/A	
		Other Segment Length		
		Number of parallel runs	1	
		Length	150 feet per run	
		Justification for New Transmission Line	Transmission line for required interim antenna operation.	

Other Transmission Line Expenses Not Listed Transmission

Tower	Section	Question	Response
Equipment And Rigging Costs	Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

# **Existing Tower**

Primary Tower	Existing Tower			
	Section	Question	Response	
	Existing Tower Description	Type of change	Construct New	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Is this tower consider Complex?	No	
		Is this tower currently shared with any other stations?	No	
		One or more FM, AM or TV radio broadcaster(s)	N/A	
		Others Types of Users	N/A	
		Is tower documented for structural analysis?	No	
		Is tower compliant with Rev G?	Unknown	
	Existing Tower Structure	Do you have a tower registration number?	No	
	Registration	ASR Number		
	Coordinates (NAD83 ( North American Datum	Latitude (NAD83)	36° 49' 47.3" N-	
	of 1983))	Longitude (NAD83)	082° 04' 44.4" W-	
		Overall Structure Height	200.00 feet	
		Support Structure Height	200.00 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	4180.00 feet	

Structure Type	LTOWER - Lattice Tower
Tower Owner	LIVING FAITH MINISTRIES, INC.
Date Constructed	01/01/1995

Primary	Tower Construction Costs			
Tower	Section	Question	Response	
	Construct New Tower	Use	Primary (Main)	
		Description of Use	N/A	
		Is this a request for upgraded equipment?	No	
		Height	143.10 feet	
		Justification for New Tower	Please see attached exhibit titled "WLFG - Exhibit for New Tower Justification (September 2018)"	

# Primary Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

#### Other Tower Expenses Not Listed

## Primary Tower

Tower

Other	IOWEI	Lybenses	NUL	LISIEU	

Name	Description
Weather Conditions	Winter weather conditions restricting access and crew working conditions
RF Engineer Consultant	Proposed tower construction; notification of same
Stone and Gravel	Stone and gravel on unimproved driveway for access to tower and transmitter sites during winter weather
Tower Expenses	Cursory Review

Soil Conditions	Actual Soil Conditions versus assumed
	standard soil conditions

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	100
		Explanation	CONSULTING SERVICES DURING TRANSITION STATION DOES NOT HAVE RESOURCES ON STAFF
	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
	301 VIC65	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	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside	Other Professional Services Expenses Not Listed			
Professiona	I Services Costs	Description		
	Additional Repack Legal Services Not Otherwise Specified in Form 399	Non-catalog legal services such as review of quarterly transition status reports and other miscellaneous non-catalog legal fees.		

Interim Antenna Considerations	Consulting Engineer Interim Antenna Operations Analysis
Insurance Costs	Insurance coverage for repack related equipment installation and transportation

Other	Section	Question	Response
Expenses	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	Yes
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	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?	No
		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 Not Listed

Other	Other Expens
Expenses	Name
	AC Line Condi

Name	Description
AC Line Conditioners	Electrical Surge Suppressor - for Solid State Transmitter
Land Mobile Mitigation Expenses Engineering Evaluation	Preliminary Estimate of LM Filters/RF Traps /Mitigation Engineering Evaluation
Land Mobile Mitigation Group A Stations	Preliminary Estimate of LM Filters/RF Traps /Mitigation Expenses Group A Stations
Land Mobile Mitigation Group B Stations	Preliminary Estimate of LM Filters/RF Traps /Mitigation Expenses Group B Stations
Land Mobile Mitigation Group C Stations	Preliminary Estimate of LM Filters/RF Traps /Mitigation Expenses Group C Stations
Land Mobile Mitigation Group D Stations	Preliminary Estimate of LM Filters/RF Traps /Mitigation Expenses Group D Stations
Land Mobile Mitigation Group E Stations	Preliminary Estimate of LM Filters/RF Traps /Mitigation Expenses Group E Stations
Land Mobile Mitigation Group F Stations	Preliminary Estimate of LM Filters/RF Traps /Mitigation Expenses Group F Stations
Services for land mobile interference identification process	Land Mobile Services
Site Security	Site security service for tower location while construction is underway

### Transmitters

### Cost Information

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 ULXTE-50	\$1,114,926.17	\$1,112,426.17		\$963,101.20	
RF Consultant	\$10,000.00	\$10,000.00	N/A	\$2,250.00	N/A
Installation and Proof	\$58,543.75	\$58,543.75	N/A	\$38,931.59	N/A
Electrical	\$9,007.62	\$9,007.62	N/A	\$5,990.06	N/A
Old Transmitter Removal	\$4,500.00	\$4,500.00	N/A	N/A	N/A
Transmitter Building Modification	\$7,866.00	\$7,866.00	N/A	\$7,866.00	N/A
Mask Filter System	\$71,421.66	\$71,421.66	N/A	\$37,779.82	N/A
Install Ch 14 filter and Mask	\$3,500.00	\$3,500.00	N/A	N/A	N/A
RF Accessories	\$63,987.22	\$63,987.22	N/A	\$42,551.50	N/A
Channel 14 Cost Not Listed	\$8,625.80	\$8,625.80	Additional expenses were incurred as indicated in the attached invoices.	\$8,625.80	Additional expenses were incurred as indicated in the attached invoices.
RF Components for Install	\$6,000.00	\$6,000.00	N/A	N/A	N/A

Total for all	\$2,773,656.62	\$2,725,978.54	N/A	\$1,824,095.14	N/A
Sub-total	\$1,114,926.17	\$1,112,426.17	N/A	\$963,101.20	N/A
Channel 14 Additional field engineering time, 2 days	\$750.00	\$750.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***FIELD TUNING OF SPECIAL CHANNEL 14 FILTER AND PROOF 2- ON-SITE DAYS	\$750.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$818,624.12	\$818,624.12	N/A	\$818,356.43	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$9,800.00	N/A	\$0.00	N/A
Other Electrical Service: Transmitter disconnect service panel	\$3,500.00	\$3,500.00	N/A	N/A	N/A

Components

Actual Information Description	File Name	
RF Consultant	Component Description:	Repack Channel 14 transmission RF system review; RF power calculations for
	Amount:	transmitter sizing. \$2,250.00
Installation and Proof		
	Component Description:	Installation and Proof for ULXTE- 50 Transmitter per Quote Q-77816
	Amount:	\$19,612.16
	Component Description:	Installation and Proof for ULXTE- 50 Transmitter per Quote Q-77816
	Amount:	\$19,319.43
Electrical	Component Description:	Electrical for ULXTE-50 Transmitter per
	Amount:	Quote Q-77816 \$3,017.55
	Component Description:	Electrical for ULXTE-50 Transmitter per Quote Q-77816
	Amount:	\$2,972.51
Old Transmitter Removal	Information not provided.	

Transmitter Building Modification	Component Description: Amount:	Site Survey \$7,866.00
Mask Filter System		
	<b>Component Description:</b>	Mask Filter
		System for ULXTE-
		50 Transmitter per
		Quote Q-77816
		(see change order
		Q-78613)
	Amount:	\$14,210.65
	Component Description:	Mask Filter
		System for ULXTE-
		50 Transmitter per
		Quote Q-77816
	Amount:	\$23,569.17
Install Ch 14 filter and Mask	Information not provided.	
RF Accessories		
	Component Description:	RF Accessories for ULXTE-50
		Transmitter per
		Quote Q-77816
	Amount:	\$21,115.78
		<i>4</i> ,0
	Component Description:	RF Accessories for
		ULXTE-50
		Transmitter per
		Quote Q-77816
	Amount:	\$21,435.72

Component Description:	Additional cost
	information not
	listed
Amount:	\$342.10
Component Description:	Additional cost
	information not
A	listed
Amount:	\$1,379.50
Component Description:	Additional cost
	information not
	listed
Amount:	\$1,127.80
Component Description:	Additional cost
	information not
Amount:	listed \$4,500.00
Amount.	φ4,500.00
Component Description:	Additional cost
	information not
Amount:	listed \$969.80
Amount.	φ909.00
Component Description:	Additional cost
	information not
Amount:	listed \$208.60
Component Description:	Additional cost
	information not
Amount:	listed \$98.00
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		filter, and system gains worksheet.
		calculations, land mobile channel
		output requirements, system loss
		Channel 14 minimum transmitter power
		directly related to repack DTV Channel 14
Channel 14 Additional field engineering time, 2 days	Component Description:	Engineering consulting services
Switchgear - industrial 800 amp	Information not provided.	
	Amount:	\$274,239.08
	Component Description:	New ULXTE-50 Transmitter per Quote Q-77816
	Amount.	φ270,143.93
	Amount:	Transmitter per Quote Q-77816 \$270,145.95
	Component Description:	New ULXTE-50
	Amount:	Quote Q-77816 \$273,971.40
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description:	New ULXTE-50 Transmitter per
(Cost per foot)		
service panel 3" Rigid Conduit and Wiring	Information not provided.	
Transmitter disconnect	information not provided.	
Other Electrical Service:	Information not provided.	

### Antennas

### Cost Information

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 AL120-49-PM	\$121,130.00	\$116,400.00		\$6,250.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,250.00	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$85,000.00	N/A	N/A	N/A
Transmission Line Connectors	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Primary Antenna ATW22H5- HTO12-14H	\$266,030.00	\$149,986.00		\$65,943.00	
UHF - High Power Top Mount (200- 1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$131,886.00	N/A	\$65,943.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	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
Sub-total	\$387,160.00	\$266,386.00	N/A	\$72,193.00	N/A
Total for all systems	\$2,773,656.62	\$2,725,978.54	N/A	\$1,824,095.14	N/A

## Components

Actual Information Description	File Name	
Sweep test of existing antenna	Component Description: Amount:	System Sweep \$6,250.00
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.	
Transmission Line Connectors	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Component Description: Amount:	ERI Top-Mount Antenna ATW22H5- HTO12-14H \$65,943.00
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	

## **Transmission Line**

#### Cost Information

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	\$11,100.00	\$10,500.00		\$0.00	
Flexible Air Transmission Line - dielectric, 4"	\$11,100.00	\$10,500.00	N/A	N/A	N/A
Primary Transmission Line	\$75,500.00	\$73,000.00		\$37,005.82	
Rigid Transmission Line - copper, 6 1/8"	\$50,500.00	\$48,000.00	N/A	\$32,327.11	N/A
Transmission Line Bridge	\$25,000.00	\$25,000.00	N/A	\$4,678.71	N/A
Sub-total	\$86,600.00	\$83,500.00	N/A	\$37,005.82	N/A
Total for all systems	\$2,773,656.62	\$2,725,978.54	N/A	\$1,824,095.14	N/A

#### Components

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 4"	Information not provided.

Rigid Transmission Line - copper, 6 1/8"	Component Description: Amount:	Transmission Line Hanger Plates \$2,963.31
	Component Description:	Transmission Line System
	Amount:	\$21,896.30
	Component Description:	6-1/8" OHM UHG Fine Matcher; invisi-shield assembly leg mount
	Amount:	\$7,467.50
Transmission Line Bridge		
	Component Description:	Freight Cost and Transmission Bridge Assembly
	Amount:	\$4,678.71

# **Tower Equipment and Rigging Costs**

#### Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower LTOWER	\$0.00	\$0.00		\$0.00	
Primary Tower	\$665,224.41	\$662,924.41		\$530,524.41	
Stone and Gravel	\$9,457.60	\$9,457.60	N/A	\$9,457.60	Additional expenses were incurred as indicated in the attached invoices.
New tower	\$516,426.81	\$516,426.81	Additional expenses were incurred as indicated in the attached invoices.	\$516,426.81	N/A
Soil Conditions	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Weather Conditions	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$81,900.00	N/A	N/A	N/A

Tower Expenses	\$2,640.00	\$2,640.00	N/A	\$2,640.00	Additional expenses were incurred as indicated in the attached invoices.
RF Engineer Consultant	\$2,500.00	\$2,500.00	N/A	\$2,000.00	N/A
Sub-total	\$665,224.41	\$662,924.41	N/A	\$530,524.41	N/A
Total for all systems	\$2,773,656.62	\$2,725,978.54	N/A	\$1,824,095.14	N/A

# Components

Actual Information Description	File Name	
Stone and Gravel		
	Component Description: Amount:	Stone and Dress Up \$2,522.00
	Component Description:	Furnish and deliver #1 stone and
	Amount:	Crusher Run stone \$6,935.60

		tower; analyze applicable tower study requirement
Tower Expenses	Component Description:	Review materials regarding existing
Short Tower (less than 500')	Information not provided.	
Weather Conditions	Information not provided.	
Soil Conditions	Information not provided.	
	Amount:	Foundation and Tower Installation \$256,336.87
	Component Description:	Custom Tower and
	Amount:	Tower Installation \$256,336.87
	Component Description:	Custom Tower and Foundation and
	Amount:	Proposal 20180619-498 \$3,753.07
	Component Description:	Freight Charge for New Tower per

## **Outside Professional Services**

#### Cost Information

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
Outside Professional Services	\$150,795.04	\$234,695.96		\$198,622.71	
Additional Repack Legal Services Not Otherwise Specified in Form 399	\$61,095.95	\$61,095.95	Additional expenses were incurred as indicated in the attached invoices.	\$50,326.95	Additional expenses were incurred as indicated in the attached invoices.
Project management of the transition	\$15,800.00	\$71,963.92	Additional expenses were incurred as indicated in the attached invoices.	\$71,963.92	Additional expenses were incurred as indicated in the attached invoices.
Insurance Costs	\$15,559.09	\$15,559.09	N/A	\$15,559.09	N/A
Interim Antenna Considerations	\$5,000.00	\$5,000.00	N/A	\$3,581.25	N/A
RF Exposure Measurements	\$21,050.00	\$10,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$2,009.00	N/A	\$1,281.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$2,541.40	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$3,000.00	N/A

Prepare and or review reimbursement form	\$2,630.00	\$45,318.00	Additional expenses were incurred as indicated in the attached invoices.	\$43,369.10	Additional expenses were incurred as indicated in the attached invoices.
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$7,000.00	N/A
Sub-total	\$150,795.04	\$234,695.96	N/A	\$198,622.71	N/A
Total for all systems	\$2,773,656.62	\$2,725,978.54	N/A	\$1,824,095.14	N/A

## Components

Actual Information Description	File Name	
Additional Repack Legal Services Not Otherwise Specified in Form 399 Component Description: Amount:		Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees. \$518.50
	Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$1,501.90

Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$1,106.25
Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$10,769.00
Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$5,128.80
Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$5,205.30

Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees. \$940.30
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$4,174.80
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$5,441.60
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$581.00

Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$5,391.70
Component Description: Amount:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$17,123.50
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$114.20
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$1,711.70

	Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$1,387.40
	Amount:	\$1,367.4U
Project management of the transition	Component Description:	Project Management of
	Amount:	Transition \$337.50
	Component Description:	Project Management of Transition
	Amount:	\$450.00
	Component Description:	Project Management of Transition
	Amount:	\$15,175.25
	Component Description:	Project Management of Transition
	Amount:	\$7,848.15
	Component Description:	Project Management of Transition
	Amount:	\$312.50
	Component Description:	Project Management of Transition
	Amount:	\$9,135.00

**Component Description:** Project Management of Transition Amount: \$6,114.40 **Component Description:** Project Management of Transition Amount: \$2,776.75 **Component Description:** Project Management of Transition Amount: \$4,495.00 **Component Description:** Project Management of Transition Amount: \$625.00 **Component Description:** Project Management of Transition Amount: \$4,603.75 **Component Description:** Project Management of Transition Amount: \$3,926.60 **Component Description:** Project Management of Transition Amount: \$5,883.07

	Component Description: Amount:	Project status, tower analysis, vendor selection \$2,025.00
	Component Description: Amount:	Project Management of Transition \$112.50
	Component Description:	Project Management of Transition
	Amount:	\$8,167.85
	Component Description: Amount:	Project Management of Transition \$6,090.00
Insurance Costs		
	Component Description:	Excess liability Insurance coverage for repack related equipment installation and transportation
	Amount:	\$11,045.70
	Component Description:	General liability Insurance coverage for repack related equipment installation and transportation
	Amount:	\$4,513.39

Considerations	Component Description: Amount:	Design parameter and antenna mounting elevations optimization of interim antenna \$1,631.25
	Component Description: Amount:	Interim Antenna operation review of possible reduced power operation; considerations wit regards to tower loading. \$1,950.00
RF Exposure Measurements	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description: Amount:	Review of Tower Lease; discussion with landlord regarding site leas \$728.00
	Component Description:	Review of Tower Lease; discussion with landlord
	Amount:	regarding site leas \$1,281.00
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:	Attorney Fees - Prepare and File FCC Form 2100
	Amount:	CP. \$2,367.80
	Component Description:	Attorney Fees - Prepare and File FCC Form 2100 CP.
	Amount:	\$173.60
Prepare request for Special Temporary Authorization	Information not provided.	
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:	Prepare engineering section of FCC Form 2100 CP Application \$3,000.00
Prepare and or review reimbursement form	Component Description:	Prepare budget for FCC Form 399 including reimbursement for expenses including vendor review and technical justification. \$2,500.00
	Component Description:	Prepare and or review reimbursement form.
	Amount:	\$2,334.90

Component Description: Amount:	Prepare and or review reimbursement form \$1,948.90
Component Description: Amount:	Prepare and or review reimbursement form \$5,121.40
Component Description: Amount:	Prepare and or review reimbursement form. \$2,121.40
Component Description: Amount:	Prepare and or review reimbursement form \$1,907.80
Component Description: Amount:	Prepare and or review reimbursement form \$354.70
Component Description: Amount:	Prepare and or review reimbursement form \$1,414.60
Component Description: Amount:	Prepare and or review reimbursement form \$14,561.80

	Component Description:	Prepare and or review reimbursement form
	Amount:	\$375.00
	Component Description:	Prepare and or review reimbursement form
	Amount:	\$356.00
	Component Description:	Prepare and or review reimbursement form
	Amount:	\$6,946.60
	Component Description:	Prepare and or review reimbursement form
	Amount:	\$4,241.20
	Component Description:	Prepare and or review reimbursement
	Amount:	form. \$1,133.70
Perform engineering study for new channel assignment and antenna development	Component Description:	Perform engineering digital channel study for new channel assignment and antenna development for selected channel.
	Amount:	\$7,000.00

## **Other Expenses**

#### Cost Information

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 Justificatio
Other Expenses	\$284,751.00	\$284,146.00		\$22,648.00	
Services for land mobile interference identification process	\$11,207.90	\$11,207.90	N/A	\$11,207.90	Additional expenses were incurred as indicated in the attached invoices.
Site Security	\$8,500.00	\$8,500.00	N/A	N/A	N/A
Land Mobile Mitigation Group F Stations	\$25,000.00	\$25,000.00	Please see attachment.	N/A	N/A
Land Mobile Mitigation Group E Stations	\$25,000.00	\$25,000.00	Please see attachment.	N/A	N/A
Land Mobile Mitigation Group D Stations	\$25,000.00	\$25,000.00	Please see attachment.	N/A	N/A
Land Mobile Mitigation Group C Stations	\$25,000.00	\$25,000.00	Please see attachment.	N/A	N/A
Land Mobile Mitigation Group B Stations	\$25,000.00	\$25,000.00	Please see attachment.	N/A	N/A
AC Line Conditioners	\$25,000.00	\$25,000.00	N/A	N/A	N/A

MVPD Notification of Channel Change	\$1,853.10	\$1,853.10	Additional expenses were incurred as indicated in the attached invoices.	\$1,804.10	Additiona expenses were incurred a indicated the attached invoices
Land Mobile Mitigation Group A Stations	\$25,000.00	\$25,000.00	Please see attachment.	N/A	N/A
Land Mobile Mitigation Expenses Engineering Evaluation	\$25,000.00	\$25,000.00	Please see attachment.	\$5,662.50	N/A
Develop and air announcement of upcoming channel change	\$2,500.00	\$2,500.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Non-zoning permits	\$2,500.00	\$2,500.00	LOCAL ELECTRICAL PERMITS AND DRAWINGS	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,973.50	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Sub-total	\$284,751.00	\$284,146.00	N/A	\$22,648.00	N/A
Total for all systems	\$2,773,656.62	\$2,725,978.54	N/A	\$1,824,095.14	N/A

# Components

Actual Information Description	File Name	
Services for land mobile interference identification process	Component Description: Amount:	Land Mobile Services \$223.90
	Component Description:	Land Mobile Website Implementation
	Amount:	\$4,700.00
	Component Description: Amount:	Land Mobile Web Site Implementation \$4,700.00
	Component Description: Amount:	Land Mobile Services \$1,584.00

Security	Information not provided.	
d Mobile Mitigation up F Stations	Information not provided.	
d Mobile Mitigation up E Stations	Information not provided.	
d Mobile Mitigation up D Stations	Information not provided.	
d Mobile Mitigation up C Stations	Information not provided.	
d Mobile Mitigation up B Stations	Information not provided.	
Line Conditioners	Information not provided.	
	Component Description: Amount:	MVPD Notification of Channel Change \$49.00
	Component Description: Amount:	MVPD Notification of Channel Change \$119.60
	Component Description:	MVPD Notification of Channel Change \$1,684.50
	Component Description: Amount: Information not provided.	N

Land Mobile Mitigation Expenses Engineering Evaluation	Component Description: Amount:	Land Mobile and Mask Filter desigr review \$4,612.50
	Component Description:	Channel 14 Land Mobile adjacent filter protection
	Amount:	research. \$1,050.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Non-zoning permits	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	

DTV Medical Facility Notification	Component Description: Amount:	Medical Notification Mailing \$2,950.00
	Component Description: Amount:	DTV Medical Facility Notification \$534.00
	Component Description: Amount:	DTV Medical Facility Notification \$147.40
	Component Description: Amount:	DTV Medical Facility Notification \$342.10
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,773,656.62	\$2,725,978.54	\$1,824,095.14

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		<ol> <li>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>The above-named</li> </ol>	
		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).
- 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.	Michael Smith President 06/06/2019

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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).	
		<ol> <li>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> </ol>	
		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).
- 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ïed above.	Michael Smith President 06/06/2019

# Attachments