

Federal Communications Commission

## (REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: File Number:	37808 00000	Service: DTV 28111	Call Sign:	WLFG	Channel: <b>14 (UHF)</b>
FRN: <b>00</b>	02058089		04/25		
		Submitted:	/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	er Contact Name and Information				
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 Infor	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?	No
		Manufacturer	
		Model	ULXTE-50
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
	Solid State Power capacity 31	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

### Other Transmitter Cost Not Listed

Primary	Other Transmitter Cost Not Listed		
Transmitter	Name	Description	
	Mask Filter System	See GatesAir Proposal Q-77816	
	Channel 14 Cost Not Listed	Additional Engineering	
	Install Ch 14 filter and Mask	Install Ch 14 filter and transmitter mask filter	
	Installation and Proof	See GatesAir Proposal Q-77816	

Old Transmitter Removal	Remove old transmitter from site
Transmitter Building Modification	See GatesAir Proposal Q-75623
RF Consultant	Provide installation support services and review of associated systems during the installation of the primary transmitter
Electrical	See GatesAir Proposal Q-77816
RF Components for Install	RF components and installation for main transmitter
RF Accessories	See GatesAir Proposal Q-77816

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

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
Existing Anten Description	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	
Existing Antenna Manufacturer and Type		Is the existing antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	-	Class	Full Power	
	Manufacturer and Type	Mounting	Full Power Side Mount Not in Stack	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	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
New Antenna Manufacturer and Types		Will antenna be located on or in close proximity to an antenna farm?	No
		Class	Full Power
	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
New Antenna	Will antenna be located on or in close proximity to an antenna farm?	No	
		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 Transmissio	Existing Transmission Line		
	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 Type	Manufacturer	
		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			
	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	
R C N		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 of 1983))	Latitude (NAD83)	36° 49' 47.3" N-	
		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	Tower Construction Costs			
	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

# Primary Other Tower Expenses Not Listed

Weather Conditions

## Tower

Tower

Name	Description
RF Engineer Consultant	Proposed tower construction; notification of same
Tower Expenses	Cursory Review
Stone and Gravel	Stone and gravel on unimproved driveway

for access to tower and transmitter sites during winter weather Winter weather conditions restricting access and crew working conditions

Soil Conditions	Actual Soil Conditions versus assumed
	standard soil conditions

Outside Professional	Section	Question	Response
	I 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
		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 Accessories	\$63,987.22	\$63,987.22	N/A	\$42,551.50	N/A
RF Components for Install	\$6,000.00	\$6,000.00	N/A	N/A	N/A
Electrical	\$9,007.62	\$9,007.62	N/A	\$5,990.06	N/A
RF Consultant	\$10,000.00	\$10,000.00	N/A	\$2,250.00	N/A
Transmitter Building Modification	\$7,866.00	\$7,866.00	N/A	\$7,866.00	N/A
Old Transmitter Removal	\$4,500.00	\$4,500.00	N/A	N/A	N/A
Installation and Proof	\$58,543.75	\$58,543.75	N/A	\$38,931.59	N/A
Install Ch 14 filter and Mask	\$3,500.00	\$3,500.00	N/A	N/A	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.
Mask Filter System	\$71,421.66	\$71,421.66	N/A	\$37,779.82	N/A

Other Electrical Service: Transmitter disconnect service panel	\$3,500.00	\$3,500.00	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
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$10,400.00	\$9,800.00	N/A	\$0.00	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
Sub-total	\$1,114,926.17	\$1,112,426.17	N/A	\$963,101.20	N/A
Total for all systems	\$2,768,279.43	\$2,702,405.50	N/A	\$1,798,280.17	N/A

Components

Actual Information Description	File Name	
RF Accessories	Component Description:	RF Accessories for ULXTE-50 Transmitter per
	Amount:	Quote Q-77816 \$21,435.72
	Component Description:	RF Accessories for ULXTE-50 Transmitter per
	Amount:	Quote Q-77816 \$21,115.78
RF Components for Install	Information not provided.	
Electrical		
	Component Description:	Electrical for ULXTE-50 Transmitter per
	Amount:	Quote Q-77816 \$2,972.51
	Component Description:	Electrical for ULXTE-50 Transmitter per
	Amount:	Quote Q-77816 \$3,017.55
RF Consultant		
	Component Description:	Repack Channel 14 transmission RF system review; RF power calculations for transmitter sizing.
	Amount:	\$2,250.00

Transmitter Building Modification	Component Description: Amount:	Site Survey \$7,866.00
Old Transmitter Removal	Information not provided.	
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
Install Ch 14 filter and Mask	Information not provided.	

Channel 14 Cost Not Listed		
	Component Description:	Additional cost information not
		listed
	Amount:	\$342.10
	Component Description:	Additional cost
		information not listed
	Amount:	\$98.00
	Component Description:	Additional cost
		information not
	Amount:	listed
	Amount.	\$1,379.50
	Component Description:	Additional cost information not
		listed
	Amount:	\$969.80
	Component Description:	Additional cost
		information not listed
	Amount:	\$1,127.80
	Component Description:	Additional cost
	-	information not
	Amount:	listed \$208.60
	Component Description:	Additional cost
	component beschption.	information not
	Amountu	listed
	Amount:	\$4,500.00

Mask Filter System		
	Component Description:	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
Other Electrical Service: Transmitter disconnect service panel	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description:	New ULXTE-50 Transmitter per
	Amount:	Quote Q-77816 \$273,971.40
	Component Description:	New ULXTE-50 Transmitter per Quote Q-77816
	Amount:	\$270,145.95
	Component Description:	New ULXTE-50 Transmitter per Quote Q-77816
	Amount:	\$274,239.08
Switchgear - industrial 800 amp	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Channel 14 Additional field engineering time, 2 days	Component Description:	Engineering consulting services directly related to repack DTV Channel 14 minimum transmitter power output requirements, system loss
	Amount:	system loss calculations, land mobile channel filter, and system gains worksheet. \$750.00

### 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		\$0.00	
Transmission Line Connectors	\$25,000.00	\$25,000.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized Sweep test	\$89,400.00	\$85,000.00	N/A N/A	N/A N/A	N/A N/A
of existing antenna	<i><b>Q</b>(<b>)</b>, <b>C</b>(<b>)</b>, <b>C</b></i>	<i><b>Q</b></i> ( <b>)</b> , <b>D</b> ( <b>)</b>			
Primary Antenna ATW22H5- HTO12-14H	\$266,030.00	\$149,986.00		\$65,943.00	
Elbow complex, single channel, at antenna input, per 6 1 /8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A

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
Sub-total	\$387,160.00	\$266,386.00	N/A	\$65,943.00	N/A
Total for all systems	\$2,768,279.43	\$2,702,405.50	N/A	\$1,798,280.17	N/A

Actual Information Description	File Name	
Transmission Line Connectors	Information not provided.	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.	
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.	
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
		φυ <del>υ,σ</del> 43.00
Sweep test of existing antenna	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		\$29,363.80	
Rigid Transmission Line - copper, 6 1/8"	\$50,500.00	\$48,000.00	N/A	\$29,363.80	N/A
Transmission Line Bridge	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$86,600.00	\$83,500.00	N/A	\$29,363.80	N/A
Total for all systems	\$2,768,279.43	\$2,702,405.50	N/A	\$1,798,280.17	N/A

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

Rigid Transmission Line - copper, 6 1/8"	Component Description: Amount:	6-1/8" OHM UHG Fine Matcher; invisi-shield assembly leg mount \$7,467.50
	Component Description:	Transmission Line System
	Amount:	\$21,896.30
Transmission Line Bridge	Information not provided.	

# **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).

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Primary Tower LTOWER	\$0.00	\$0.00		\$0.00	
Primary Tower	\$664,596.22	\$662,296.22		\$528,002.41	
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.
Stone and Gravel	\$8,829.41	\$8,829.41	N/A	\$6,935.60	N/A
RF Engineer Consultant	\$2,500.00	\$2,500.00	N/A	\$2,000.00	N/A

Sub-total	\$664,596.22	\$662,296.22	N/A	\$528,002.41	N/A
Total for all systems	\$2,768,279.43	\$2,702,405.50	N/A	\$1,798,280.17	N/A

Actual Information Description	File Name	
New tower	Component Description:	Freight Charge for New Tower per Proposal
	Amount:	20180619-498 \$3,753.07
	Component Description:	Custom Tower and Foundation and Tower Installation
	Amount:	\$256,336.87
	Component Description:	Custom Tower and Foundation and Tower Installation
	Amount:	\$256,336.87
Soil Conditions	Information not provided.	
Weather Conditions	Information not provided.	
Short Tower (less than 500')	Information not provided.	

Tower Expenses		
	Component Description:	Review materials regarding existing tower; analyze applicable tower study requirement to known tower characteristics; draft analysis for client
	Amount:	\$2,640.00
Stone and Gravel		
	Component Description:	Furnish and deliver #1 stone and Crusher Run stone \$6,935.60
RF Engineer Consultant		
	Component Description:	RF Engineer Consultant
	Amount:	\$2,000.00

#### **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	\$216,500.11		\$193,872.76	
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
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.	\$61,095.95	Additional expenses were incurred as indicated in the attached invoices.
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	\$2,009.00	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
Project management of the transition	\$15,800.00	\$53,768.07	Additional expenses were incurred as indicated in the attached invoices.	\$53,768.07	Additional expenses were incurred as indicated in the attached invoices.
Prepare and or review reimbursement form	\$2,630.00	\$45,318.00	Additional expenses were incurred as indicated in the attached invoices.	\$45,318.00	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

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$3,000.00	N/A
RF Exposure Measurements	\$21,050.00	\$10,000.00	N/A	N/A	N/A
Sub-total	\$150,795.04	\$216,500.11	N/A	\$193,872.76	N/A
Total for all systems	\$2,768,279.43	\$2,702,405.50	N/A	\$1,798,280.17	N/A

File Name	
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
Amount:	transportation \$4,513.39
	Component Description: Amount: Component Description:

Interim Antenna		
Considerations	Component Description:	Design parameters and antenna mounting elevations optimization of interim antenna \$1,631.25
	Component Description:	Interim Antenna operation review of possible reduced power operation; considerations with regards to tower loading. \$1,950.00
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: Amount:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$1,501.90

Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$10,769.00
Component Description: Amount:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$5,391.70
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 \$581.00

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 \$1,387.40
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$5,205.30
Amount.	<b>Φ</b> ΰ,Ζ <b>U</b> Ͽ. <b>3</b> U

Component Description:	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 \$5,441.60
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$1,106.25
Component Description:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non- catalog legal fees \$114.20
Amount:	\$114.20

	Component Description: Amount:	Non-Catalog Legal Services such as review of quarterly transition status reports and other miscellaneous non catalog legal fees \$5,128.80
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:	Review of Tower Lease; discussions with landlord
	Amount:	regarding site lease \$728.00
	Component Description:	Review of Tower Lease; discussions with landlord regarding site lease \$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 CP.
	Amount:	\$2,367.80
	Component Description:	Attorney Fees - Prepare and File FCC Form 2100
		CP.

Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Project management of the transition	Component Description:	Project Management of Transition
	Amount:	\$337.50
	Component Description:	Project Management of Transition
	Amount:	\$450.00
	Component Description:	Project Management of Transition
	Amount:	\$4,603.75
	Component Description:	Project Management of Transition
	Amount:	\$6,114.40
	Component Description:	Project Management o
	Amount:	Transition \$312.50
	Component Description:	Project Management of Transition
	Amount:	\$625.00

**Component Description:** Project Management of Transition Amount: \$7,848.15 **Component Description:** Project Management of Transition Amount: \$2,776.75 **Component Description:** Project Management of Transition Amount: \$8,167.85 **Component Description:** Project Management of Transition Amount: \$4,495.00 **Component Description:** Project status, tower analysis, vendor selection Amount: \$2,025.00 **Component Description:** Project Management of Transition Amount: \$3,926.60 **Component Description:** Project Management of Transition Amount: \$112.50

	Component Description: Amount:	Project Management of Transition \$5,883.07
	Component Description: Amount:	Project Management of Transition \$6,090.00
Prepare and or review reimbursement form	Component Description: Amount:	Prepare and or review reimbursement form \$4,241.20
	Component Description: Amount:	Prepare and or review reimbursement form \$1,948.90
	Component Description: Amount:	Prepare and or review reimbursement form \$356.00
	Component Description: Amount:	Prepare and or review reimbursement form \$5,121.40
	Component Description:	Prepare and or review reimbursement form.
	Amount:	\$2,334.90

Component Description:	Prepare budget for FCC Form 399 including reimbursement for expenses including vendor review and technical justification. \$2,500.00
Component Description: Amount:	Prepare and or review reimbursement form \$354.70
Component Description: Amount:	Prepare and or review reimbursement form \$6,946.60
Component Description:	Prepare and or review reimbursement form.
Amount:	\$2,121.40
Component Description:	Prepare and or review reimbursement form
Amount:	\$375.00
Component Description:	Prepare and or review
Amount:	reimbursement form \$1,907.80
Component Description:	Prepare and or review
Amount:	reimbursement form \$1,414.60

	Component Description:	Prepare and or review reimbursement fo
	Amount:	\$14,561.80
	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
	Amount:	development for selected channel. \$7,000.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	Prepare engineering sectio of FCC Form 2100 CP Application
	Amount:	\$3,000.00
RF Exposure Measurements	Information not provided.	

#### **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	\$280,002.00	\$279,397.00		\$17,997.00	
Site Security	\$8,500.00	\$8,500.00	N/A	N/A	N/A
Services for land mobile interference identification process	\$6,507.90	\$6,507.90	N/A	\$6,507.90	Additional expenses were incurred as indicated in the attached invoices.
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

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
AC Line Conditioners	\$25,000.00	\$25,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$1,804.10	\$1,804.10	N/A	\$1,853.10	Additiona expense were incurred indicated the attached invoices
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 - Special Temporary Authorization request	\$195.00	\$190.00	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 - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Sub-total	\$280,002.00	\$279,397.00	N/A	\$17,997.00	N/A
Total for all systems	\$2,768,279.43	\$2,702,405.50	N/A	\$1,798,280.17	N/A

Actual Information Description	File Name	
Site Security	Information not provided.	
Services for land mobile interference identification process	Component Description: Amount:	Land Mobile Services \$223.90
	Component Description: Amount:	Land Mobile Web Site Implementation \$4,700.00
	Component Description: Amount:	Land Mobile Services \$1,584.00

Land Mobile Mitigation Group F Stations	Information not provided.	
Land Mobile Mitigation Group E Stations	Information not provided.	
Land Mobile Mitigation Group D Stations	Information not provided.	
Land Mobile Mitigation Group C Stations	Information not provided.	
Land Mobile Mitigation Group B Stations	Information not provided.	
Land Mobile Mitigation Group A Stations	Information not provided.	
Land Mobile Mitigation Expenses Engineering Evaluation	Component Description:	Channel 14 Land Mobile adjacent filter protection
	Amount:	research. \$1,050.00
	Component Description:	Land Mobile and Mask Filter design review
	Component Description: Amount:	
AC Line Conditioners		Mask Filter design review
AC Line Conditioners MVPD Notification of Channel Change	Amount:	Mask Filter design review
MVPD Notification of	Amount: Information not provided. Component Description:	Mask Filter design review \$4,612.50 MVPD Notification of Channel Change

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 - Special Temporary Authorization request	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	DTV Medical Facility Notificatio \$534.00
	Component Description: Amount:	Medical Notification Mailin \$2,950.00
	Component Description: Amount:	DTV Medical Facility Notificatio \$342.10
	Component Description:	DTV Medical Facility Notificatio
	Amount:	\$147.40
FCC Filing Fees - Form 2100 minor change CP	Information not provided.	
application		

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,768,279.43	\$2,702,405.50	\$1,798,280.17

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 04/25/2019

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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) ied above.	Michael Smith President 04/25/2019

# Attachments