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

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **32216** | Service: **DCA** | Call Sign: **WUWT-CD** | Channel: **24 (UHF)**

File Number: **0000028539**

FRN: **0021840418** | Date Submitted: **04/21/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
HARPOLE TELECOM, INC. Doing Business As: HARPOLE TELECOM, INC.	Joseph H. Harpole, Jr. 400 Powhatan Hill Place Manakin-Sabot, VA 23103 United States	+1 (434) 770-7813	wuwtunioncity@gmail.com	Corporation

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Michelle A McClure *Legal Counsel* *Fletcher, Heald & Hildreth, PLC*	Michelle A. McClure 1300 North 17th Street 11th Floor Arlington, VA 22209 United States	+1 (703) 812-0484	mcclure@fhhlaw.com

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Modification of licensed facility for digital class A TV station application.

Transmitters

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

Primary Transmitter

Add Transmitter Information

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 and Type	Manufacturer	
	Model	TTU1000FA
	Year	2009
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.2 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	UAXTE-3R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.8 kW
	Justification for New Transmitter	Existing transmitter manufacturer is out of business and transmitter is no longer supported

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A

	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	1000.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

Primary Antenna

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Class A
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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)	15.0 kW

Manufacturer	
Model	PSILP240I
Year	2012

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	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 Manufacturer and Types	Class	Class A
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	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)	14.3 kW
	Manufacturer	

Model	ATC-BCE78M-V3-24
Year	2017
Justification for New Antenna	Existing antenna cannot be modified to operate on new channel

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	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 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?	No

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	No

Tower Equipment And Rigging Costs

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

Primary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	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?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 26' 46.2" N-
	Longitude (NAD83)	089° 02' 12.2" W-

Overall Structure Height	349.08 feet
Support Structure Height	349.08 feet
Ground Elevation Above Mean Sea Level (AMSL)	334.97 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Joseph H. Harpole Sr.
Date Constructed	10/14/1993

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

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	Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	WUWT-CD requires the aid of outside project management services in order to fulfill the requirements of the repack.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	No
	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	No
	Quantity	N/A
	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	No
	Quantity	N/A
	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	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Information not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	No
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	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?	No
	Does this relocation require MVPD Notification of a Channel Change?	No

Other Expenses

Other Expenses Not Listed

Information not provided.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter UAXTE-3R37	**$161,963.50**	**$129,736.93**		**$120,982.60**	
Other -- Building Addition Size: 1000.0	***$15,713.50***	$15,713.50	Please see Estimated Cost Justification WUWT-110-1st Primary Transmitter - Building Addition, 1,000 sq. ft. V0	$15,713.50	N/A
5 Ton system	$20,250.00	$15,000.00	N/A	$6,661.18	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	$126,000.00	$99,023.43	Please see attached GatesAir Quote Q-57477	$98,607.92	N/A
Sub-total	$161,963.50	$129,736.93	N/A	$120,982.60	N/A
Total for all systems	$836,058.50	$874,504.93	N/A	$215,862.40	N/A

Components

Actual Information Description	File Name

Other -- Building Addition Size: 1000.0	**Component Description:** **Amount:**	WUWT-110-1st Primary Transmitter - Building Addition, 1,000 sq. ft. $613.50
	Component Description: **Amount:**	Install wood 2x4 walls under existing beams at side porch $15,100.00
5 Ton system	**Component Description:** **Amount:**	Lennox Cooling only 5 ton Package unit. $6,661.18
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	**Component Description:** **Amount:**	UAXTE-3R37 Transmitter $31,507.81
	Component Description: **Amount:**	"UAXTE-3R37 Transmitter per Quote Q-57477" $31,507.81
	Component Description: **Amount:**	Installation of WUWT GatesAir Transmitter $9,250.00
	Component Description: **Amount:**	Transmitter $26,342.30

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna ATC-BCE78M-V3-24	**$26,300.00**	**$25,000.00**		**$6,465.00**	
UHF - Lower Power Side Mount, Class A One Station antenna -- basic	$26,300.00	$25,000.00	N/A	$6,465.00	N/A
Sub-total	$26,300.00	$25,000.00	N/A	$6,465.00	N/A
Total for all systems	$836,058.50	$874,504.93	N/A	$215,862.40	N/A

Components

Actual Information Description	File Name
UHF - Lower Power Side Mount, Class A One Station antenna -- basic	**Component Description:** "WUWT - UNION CITY, TN Facility ID #32216" **Amount:** $1,465.00 **Component Description:** Omnioid Coaxial Slot Antenna Side Mount **Amount:** $5,000.00

Cost Information

Transmission Line

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	**$531,500.00**	**$454,200.00**		**$4,500.00**	
Major tower reinforcement /modifications	$421,000.00	$350,000.00	N/A	$0.00	N/A
Short Tower (less than 500')	$84,200.00	$84,200.00	N/A	$4,500.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$20,000.00	N/A	$0.00	N/A
Sub-total	$531,500.00	$454,200.00	N/A	$4,500.00	N/A
Total for all systems	$836,058.50	$874,504.93	N/A	$215,862.40	N/A

Components

Actual Information Description	File Name
Major tower reinforcement /modifications	Information not provided.

Short Tower (less than 500')	**Component Description:** **Amount:**	Take down channel 26 TV transmitting antenna. Put up channel 24 TV transmitting antenna. $4,500.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.	

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$115,840.00**	**$265,448.00**		**$83,794.80**	
Attorney Fees - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	$150.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,000.00	N/A	$125.00	Harpole Telecom had many questions and answers needed to be given or verified with attorney. The information needed from attorney could not be accessed on fcc website.
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$1,200.00	N/A	$0.00	N/A

Prepare and or review reimbursement form	$2,630.00	$3,323.00	Fletcher 194848 Fletcher 193479	$3,200.00	Fletcher 194848 Fletcher 193479
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$2,500.00	N/A	$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,250.00	Please see Estimated Cost Justification WUWT-530-RF Eng - License to Cover Application v0	$1,250.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$4,500.00	N/A	$2,275.00	N/A
Project management of the transition	$94,010.00	$246,675.00	see Estimated Cost Justification WUWT-510-Project Management and Compliance v0	$76,794.80	N/A
Sub-total	$115,840.00	$265,448.00	N/A	$83,794.80	N/A
Total for all systems	$836,058.50	$874,504.93	N/A	$215,862.40	N/A

Components

Actual Information Description	File Name	
Attorney Fees - Negotiation of lease and other matters for shared locations	**Component Description:** **Amount:**	Legal services $150.00
	Component Description: **Amount:**	7 consultations with attorneys $1,500.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	Consult with attorney regarding modification application. $4,749.78
	Component Description: **Amount:**	Review FCC emails with attorney regarding repacking procedures. $4,274.78
	Component Description: **Amount:**	7 consultations with attorney regarding repack. $1,500.00
	Component Description: **Amount:**	Review, revise, consult regarding Form 399. 5 consultations. $3,864.78
	Component Description: **Amount:**	Provide repacking info. to client $125.00

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	**Component Description:** **Amount:**	Legal Services $100.00
	Component Description: **Amount:**	Legal services $1,500.00
	Component Description: **Amount:**	Please deny this invoice, it is a duplicate. N/A
	Component Description: **Amount:**	Legal Services $1,600.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	Prep $1,250.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Legal Services $1,250.00
	Component Description: **Amount:**	Legal Services $300.00
	Component Description: **Amount:**	Legal services $725.00
Project management of the		

transition

Component Description: Project management
Amount: $1,936.10

Component Description: Project Management
Amount: $2,504.45

Component Description: Project Management
Amount: $423.75

Component Description: Project Management
Amount: $4,050.60

Component Description: Project Management
Amount: $715.00

Component Description: Project Management
Amount: $3,170.15

Component Description: Project Management
Amount: $3,089.15

Component Description: Project Management Services Provided
Amount: $3,000.00

Component Description: Project Management
Amount: $1,148.75

Component Description: Project Management
Amount: $5,040.20

Component Description: Project Management
Amount: $3,490.45

Component Description: Project Management
Amount: $2,106.05

Component Description: 20 hours worked as on-site project manager
Amount: $27,000.00

Component Description: Project Management
Amount: $1,914.35

Component Description: Project Management
Amount: $1,898.60

Component Description: Project Management
Amount: $1,701.35

Component Description: Project Management
Amount: $2,283.90

Component Description: Project Management
Amount: $1,920.50

Component Description:	Project Management
Amount:	$295.00
Component Description:	Project Management
Amount:	$2,784.15
Component Description:	Project Management
Amount:	$82.50
Component Description:	Project Management
Amount:	$2,457.80
Component Description:	Project Management
Amount:	$2,030.70
Component Description:	Project Management
Amount:	$1,751.30

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$455.00**	**$120.00**		**$120.00**	
Equipment Delivery and Handling Charges	***$120.00***	$120.00	Please see attached WUWT-CD Justification for Equipment Delivery and Handling Charges - Barkley Construction invoice 1020	$120.00	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$0.00	N/A	N/A	N/A
Sub-total	$455.00	$120.00	N/A	$120.00	N/A
Total for all systems	$836,058.50	$874,504.93	N/A	$215,862.40	N/A

Components

Actual Information Description	File Name	
Equipment Delivery and Handling Charges	**Component Description:**	New door instead of reusing existing door
	Amount:	$120.00

FCC Filing Fees - Form 2100 license to cover application	Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$836,058.50	$874,504.93	$215,862.40

Reimbursement Status

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

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Joseph H. Harpole** *President* 04/21/2020

Attachments