



(REFERENCE COPY - Not for submission)

FCC Form 399: Incentive Auction Relocation Reimbursement Fund System

File Number: **0000028087** | FRN: **0005423389** | Facility ID: **41398**

Repack Channel: **7 (High VHF)** | Entity: **Broadcaster** | Filing Status: **Submitted**

Date Submitted: **07/11/2017**

Applicant Information Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
NASHVILLE PUBLIC TELEVISION, INC. Doing Business As: NASHVILLE PUBLIC TELEVISION, INC.	Kevin Crane 161 RAINS AVENUE NASHVILLE, TN 37203 United States	+1 (615) 259-9325	kcrane@wnpt.org	Not-for-Profit

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
Dale Howard <i>Dale Howard & Associates</i>	Dale Howard 4949 Lakeridge Drive Old Hickory, TN 37138 United States	+1 (615) 202-3253	dale@multiwavelengths.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	Station will be replacing a top mounted antenna on a tower that no other television entity is co-located on.

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	PTCD5P1-i
	Year	2008
	Type	Solid state
	IOT Power Type	
	Description	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	2.0 kw
	Other Transmitter Type	

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Description of Use	
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TMV9
	Transmitter Type	Solid state
	IOT Power Type	
	Other	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	2.7 kw
	Other Transmitter Type	

Justification for New Transmitter	Per GatesAir, they will continue to provide service support for this system through 2022 we will not be able to provide channel change assistance for this transmitter due to all the frequency change components involved.
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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	
	Rigid Conduit and Wiring	No
	Size	
	Length	
	Other Electrical Service	Yes
	Description	Install EMT conduit and wiring to circuit breaker box.

HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	
	Size	
	Other Size	
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	
Channel 14 Costs	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	
	Number of Days	

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**

Existing 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 the existing antenna shared with another station or stations?	No
	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
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top-mount single
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Other Type
	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	Panel
	ERP: (Effective Radiated Power)	17.65 kW

Manufacturer	
Model	TAD-12HD-4/24
Year	1997

**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?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top-mount single
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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)	17.65 kW
Manufacturer		

Model	THV-12A7-R 04
Year	2020
Justification for New Antenna	Current antenna was originally purchased for analog channel 8. Used for channel 8 digital and response is flat across the channel. At channel 7, the response drops 10 dB from the upper side of the channel to the lower side.

Primary Antenna

Other Antenna Costs

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

	Broadband or Single Channel?	Single Channel
	Feed Line Size	3 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase 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 Manufacturer and Type	Class	Full Power
	Mounting	Side-mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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)	7.00 kW
	Manufacturer	
	Model	TLS-V4BB
	Year	2020

Justification for New Antenna	Station will need interim antenna to stay on the air while main antenna is replaced. Dielectric says they don't have enough rentals to go around.
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Interim Antenna

Other Antenna Costs

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

Other Antenna Cost Not Listed

Information not provided.

Transmission Line	Section	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	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	Existing 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?	Yes	
	One or more FM, AM or TV radio broadcaster(s)	Yes	
	Others Types of Users	No	
	Is tower documented for structural analysis?	Yes	
	Is tower compliant with Rev G?	Yes	
Existing Tower Structure Registration	Do you have a tower registration number?	No	
	ASR Number		
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 02' 50.0" N-	
	Longitude (NAD83)	086° 49' 49.0" W-	

Overall Structure Height	943.89 feet
Support Structure Height	943.89 feet
Ground Elevation Above Mean Sea Level (AMSL)	1104.97 feet
Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Young Broadcasting of Nashville LLC
Date Constructed	01/01/1973

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
59815	WSIX-FM	FM

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Temporary antenna	Installation and removal of temporary antenna

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	120
	Explanation	Station doesn't employ anyone with the necessary RF expertise.
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	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	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	3
	Justification	Testing of temporary antenna and testing of system after installation

Other Professional Services Expenses Not Listed

**Outside
Professional
Services
Costs**

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?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	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**

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 TMV9	\$153,500.00	\$108,534.16		\$0.00	
Other Electrical Service: Install EMT conduit and wiring to circuit breaker box.	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	\$148,500.00	\$103,534.16	N/A	N/A	N/A
Sub-total	\$153,500.00	\$108,534.16	N/A	\$0.00	N/A
Total for all systems	\$889,180.00	\$837,075.16	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TLS-V4BB	\$69,132.00	\$64,032.00		\$0.00	
Sweep test of existing antenna	\$6,550.00	\$2,000.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station horizontally polarized	<i>\$40,032.00</i>	\$40,032.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$22,550.00	\$22,000.00	N/A	N/A	N/A
Primary Antenna THV-12A7-R 04	\$334,650.00	\$339,174.00		\$0.00	
High VHF - High Power Top Mount One Station horizontally polarized	<i>\$320,520.00</i>	\$320,520.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,580.00	\$12,254.00	Cost is per Dielectric. Cost includes engineering design, elbows, and 20 ft. of transmission line.	N/A	N/A

Sweep test of existing antenna	\$6,550.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$403,782.00	\$403,206.00	N/A	\$0.00	N/A
Total for all systems	\$889,180.00	\$837,075.16	N/A	\$0.00	N/A

Components

Information not provided.

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	\$254,300.00	\$249,000.00		\$0.00	
Structural engineering tower load study for well documented tower	\$12,300.00	\$12,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$205,000.00	\$200,000.00	N/A	N/A	N/A
Temporary antenna	<i>\$37,000.00</i>	\$37,000.00	N/A	N/A	N/A
Sub-total	\$254,300.00	\$249,000.00	N/A	\$0.00	N/A
Total for all systems	\$889,180.00	\$837,075.16	N/A	\$0.00	N/A

Components

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	\$46,750.00	\$45,750.00		\$0.00	
Address transition timing and coordination issues w/ other stations and wireless	\$2,560.00	\$2,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,070.00	\$3,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,120.00	\$5,000.00	N/A	N/A	N/A
Additional Field Engineering Service, 3 Days	<i>\$6,000.00</i>	\$6,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,305.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,585.00	\$3,500.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$1,535.00	\$1,500.00	N/A	N/A	N/A
Project management of the transition	\$18,480.00	\$18,000.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,560.00	\$2,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,535.00	\$1,500.00	N/A	N/A	N/A
Sub-total	\$46,750.00	\$45,750.00	N/A	\$0.00	N/A
Total for all systems	\$889,180.00	\$837,075.16	N/A	\$0.00	N/A

Components

Information not provided.

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	\$30,848.00	\$30,585.00		\$0.00	
FCC Filing Fees - Form 2100 minor change CP application	\$1,070.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,250.00	\$11,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$3,000.00</i>	\$3,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$333.00	\$325.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Sub-total	\$30,848.00	\$30,585.00	N/A	\$0.00	N/A

Total for all systems	\$889,180.00	\$837,075.16	N/A	\$0.00	N/A
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Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$889,180.00	\$837,075.16	\$0.00

Construction Status	Question	Response
		Is construction complete?

Certification	Section	Question	Response
	<p>Submission of Estimated Expenses Statements</p>	<p>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.</p>	
		<ol style="list-style-type: none"> 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.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Kevin Crane <i>VP Content & Technology</i></p> <p>07/11/2017</p>

Attachments

Information not provided.