

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 16817 Service: DTV Call WTVS Channel: 20 (UHF)

ID:

Sign:

File **0000027891** 

Number:

FRN: **0002770360** Date **09/14** 

Submitted: /2018

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
DETROIT EDUCATIONAL TELEVISION FOUNDATION Doing Business As: WTVS	John Mark RILEY BROADCASTCAST CENTER 1 CLOVER COURT WIXOM, MI 48393 United States	+1 (248) 305- 3788	jmark@dptv. org	Not-for- Profit

# Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### Preparer Contact Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email
John Mark VP Engineering Detroit Educational Television Foundation	John Mark 1 Clover Court Wixom, MI 48393 United States	+1 (248) 305- 3760	jmark@dptv. org

#### 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.	Yes
Briefly describe transition plan	3 stations Install and operate from a new side mount Broadband Antenna installed before implementation of Phase 3 due to WMYD early transition. Install new transmitter filters coax and antenna to operate on post transition assigned frequency of channel 20

#### **Transmitters**

s 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	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	Visionary DT Dual HP25SDW
	Year	1999
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	THU9-EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	37 kW
	Justification for New Transmitter	Current Transmitter Manufacture no longer in business Parts unavailable SS transmitter lower cost than IOT See Attached

#### Primary Transmitter

## **Other Transmitter Costs**

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	2 inches
	Length	200.0 feet
	Other Electrical Service	Yes
	Description	Generator replacement Electrical installation for Transmitter
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	10 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	1500.0 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**

Name	Description
electrical Sub panel	power distribution for new combiner room
10 ton Heating and cooling unit	antenna combiner room heating and cooling
HVAC ice shield	protection for external portion of HVAC

#### **Antennas**

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

#### **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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Bottom
	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)	600.0 kW

Manufacturer	
Model	TFU- 18GBH-R04
Year	1999

#### **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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	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)	345.0 kW
	Manufacturer	

Model	TFU- 24GTH-VP- R 06
Year	2019
Justification for New Antenna	Current antenna does not support new channel Vertical upgrade will be a separate line item on invoice

#### **Other Antenna Costs**

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

#### **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	Leased
	Owner	American Tower
	Is antenna shared?	Yes
	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	Elliptical
	Туре	Broadband Slot
	Number of Stations Supported	3
	Number of Panels/Bays	24
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	60.0 kW
	Manufacturer	
	Model	TFU-24WB /VP

Year 2018	
Luctification for New Antonna	
Justification for New Antenna  Candelab will need extensive upgrades for repack of 3 stations 1 in phase 3 two in phase 8	

#### Interim Antenna

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	В
	Feed Line Size	7 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

# Enter a list of RF channel numbers.

RF Channel Number
21
43
44

#### Interim Antenna

#### **Other Antenna Cost Not Listed**

Name	Description
combiner installation	installation of combiner by manufacture

Transmission <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission Line

#### **Existing Transmission Line**

n Line 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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1200 feet per run

#### Primary Transmission

#### **New Transmission Line**

on 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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1200 feet per run
	Justification for New Transmission Line	Cannel reassignment is forbidden channel on current coax

Primary
Other Transmission Line Expenses Not Listed
Transmission Line tion not provided.

#### Interim

#### **New Transmission Line**

Transmissio	n Line Section	Question	Response
New Transmission Line Costs		Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	7 3/16 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	1
		Length	995 feet per run
		Justification for New Transmission Line	no current interim coax cost for coax, 3 elbows and nitrogen generator for pressurization of line

**Other Transmission Line Expenses Not Listed** 

Transmission loine tion not provided.

# 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**

Existing Tower Description	Type of change  Tower Use  Description of Use  Ownership	Modify Existing Primary (Main) N/A
Description	Description of Use	N/A
	·	
	Ownership	
		Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Yes
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1003429
Coordinates (NAD83 (	Latitude (NAD83)	42° 26' 52.5" N-
North American Datum of 1983))	Longitude (NAD83)	083° 10' 23.1" W-
	Overall Structure Height	1086.93 feet
	Support Structure Height	1012.13 feet
	Ground Elevation Above Mean Sea Level (AMSL)	662.07 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Tower, LLC
Date Constructed	06/11/1999

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
74211	WMYD	DTV
72123	WWJ-TV	DTV
6056	WRCJ-FM	FM

#### Other Types of Users

Users
WHNE-LD
W292DK
W224CC
W268CN
W232CA
T-Mobil

#### 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:	Minor Reinforcements needed

## Primary Tower

# **Tower Rigging Costs**

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

## Primary Tower

#### **Other Tower Expenses Not Listed**

Information not provided.

#### Outside Professional

Section	Question	Response
I Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	95
	Explanation	Project management fees charged by tower owner
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	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes

	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	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	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

#### Outside Professional

# Other Professional Services Expenses Not Listed

al Services Costs	Description
Site Coordination meeting	Coordination meeting of tenants tower owner and all contractors and vendors involved with the deliveries and construction. Travel and Logistical expenses incurred

# 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	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	No
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD  Notification of a Channel Change?	Yes

# Other Expenses

## Other Expenses Not Listed

Name	Description
tower owner permits	Permits for combiner room electrical and construction permits
Employee time	Employee's time spent working on paperwork accounting, transmitter work, and supervision
Interim antenna connection	Coax, switches, forward/reverse power meters to interconnect with interim antenna
Interim antenna tower lease	Tower rental space for interim antenna
Lift equipment rental	fork lift and/or crane for lifting heavy equipment
Site Security	Due to high value equipment stored outside additional security measures needed

# **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 THU9-EVO	\$1,707,167.00	\$1,060,969.00		\$1,875.01	
HVAC ice shield	\$1,500.00	\$1,500.00	American tower charge	N/A	N/A
10 ton Heating and cooling unit	\$19,167.00	\$19,167.00	Heating and cooling unit for American Towers new combiner room	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$885,521.00	37 KW transmitter	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$6,050.00	American tower charge	\$0.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$1,667.00	American tower charge	\$208.34	N/A
Other Electrical Service: Generator replacement Electrical installation for Transmitter	\$127,500.00	\$127,500.00	Electrical costs for 230KW generator and installation replacement due to inadequate power for new transmitter also transmitter electrical installation and decommissioning cost	\$416.67	N/A

10 Ton system	\$38,900.00	\$15,864.00	Replace 5 ton unit with 10 ton unit due to increased heat load of transmitter Available wall space will not support 2 5 ton units	N/A	N/A
Other Building Addition Size: 1500.0	\$2,000.00	\$2,000.00	American Tower Charge	\$1,250.00	N/A
electrical Sub panel	\$1,700.00	\$1,700.00	American Tower Charge	N/A	N/A
Sub-total	\$1,707,167.00	\$1,060,969.00	N/A	\$1,875.01	N/A
Total for all systems	\$3,743,463.10	\$2,786,650.10	N/A	\$201,202.75	N/A

Actual Information Description	File Name	
HVAC ice shield	Information not provided.	
10 ton Heating and cooling unit	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Component Description: Amount:	25% deposit for this component \$208.34

Other Electrical Service: Generator replacement	Component Description	25% denocit on
Electrical installation for	Component Description:	25% deposit on component
Transmitter	Amount:	\$416.67
10 Ton system	Information not provided.	
Other Building Addition		
Size: 1500.0	Component Description:	25% downpayment
		on component
	Amount:	\$1,250.00
electrical Sub panel	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 Justification
Interim Antenna TFU-24WB /VP	\$235,930.00	\$219,400.00		\$119,985.08	
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 60 - 65 kW input, elliptically or circularly polarized	\$100,000.00	\$100,000.00	N/A	\$97,901.75	N/A
combiner installation	\$5,000.00	\$5,000.00	N/A	\$2,083.33	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

New combiner, cost per channel (without antenna)	\$84,200.00	\$80,000.00	N/A	\$19,166.67	N/A
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	\$16,850.00	\$6,000.00	N/A	\$833.33	N/A
Primary Antenna TFU- 24GTH-VP- R 06	\$308,530.00	\$293,100.00		\$833.33	
UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$275,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$833.33	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	\$544,460.00	\$512,500.00	N/A	\$120,818.41	N/A

Total for	\$3,743,463.10	\$2,786,650.10	N/A	\$201,202.75	N/A
all systems					

File Name	
Component Description:	PARTIAL PAYMENT ON UHF HIGH POWER SIDE MOUNT ANTENNA
Amount:	N/A
Component Description:  Amount:	CAPITAL CONTRIBUTION - DETROIT - OAK PARK T1 MI / 282678 / ASSET#282678- BT1 / OAA711327 / FID 1003429 / WTVS Channel 20 Phase 8 / MILESTONE 1 / BROADCAST REPACK / TAX ID: 65-0723837 \$97,901.75
Component Description:	25% downpayment on component
Amount:	\$2,083.33
Information not provided.	
Information not provided.	
	Component Description:  Amount:  Component Description:  Amount:  Information not provided.

New combiner, cost per channel (without antenna)	Component Description:	PARTIAL PAYMENT FOR NEW COMBINER
	Amount:  Component Description:  Amount:	N/A  25% downpayment on component \$19,166.67
Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed)	Component Description: Amount:	25% downpayment for compenent \$833.33
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Information not provided.	
Sweep test of existing antenna	Component Description: Amount:	25% downpayment on component \$833.33
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	

# **Cost** Information

#### **Transmission Line**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$331,335.00	\$105,200.00		\$26,251.75	
Rigid Transmission Line - copper, 7 3 /16" broadband	\$331,335.00	\$105,200.00	N/A	\$26,251.75	N/A
Primary Transmission Line	\$242,400.00	\$230,400.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$242,400.00	\$230,400.00	N/A	N/A	N/A
Sub-total	\$573,735.00	\$335,600.00	N/A	\$26,251.75	N/A
Total for all systems	\$3,743,463.10	\$2,786,650.10	N/A	\$201,202.75	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 7 3/16" broadband	Component Description:  Amount:	PARTIAL PAYMENT FOR RIGID TRANSMISSION LINE \$26,251.75
Rigid Transmission Line - copper, 6 1/8"	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 Primary Tower GTOWER	Predetermined Cost Estimate \$605,300.00	Estimated Cost \$575,000.00	Estimated Cost Justification	Actual Cost \$29,350.00	Actual Cost Justification
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	\$14,600.00	Please remove \$14,600 entry for Tower Mapping & Structural Engineering as FCC did not like two invoices attached in one request.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	\$13,750.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$1,000.00	N/A
Sub-total	\$605,300.00	\$575,000.00	N/A	\$29,350.00	N/A
Total for all systems	\$3,743,463.10	\$2,786,650.10	N/A	\$201,202.75	N/A

<b>Actual Information</b>	
Description	File Name

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary	Component Description:	Broadcast Tower Mapping Detroit OakPark Broadcast Repack Line 2
for tower load study	Amount:	\$8,267.00
	Component Description:	TOWER MAPPING & STRUCTURAL ENGINEERING
	Amount:	N/A
	Component Description:	Broadcast structural
	Amount:	\$6,333.00
Complex Tower (includes, for example, those with		
candelabras and/or stacked	Component Description:	25% downpayment
antennas)	Amount:	on component \$13,750.00
Minor tower reinforcement		
/modifications	Component Description:	25% downpayment
		on component
		\$1,000.00

### **Cost Information**

#### **Outside Professional Services**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$83,420.00	\$73,750.00		\$7,757.58	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$90.00	N/A
Project management of the transition	\$15,010.00	\$9,500.00	American Tower charge	\$4,291.50	N/A
Site Coordination meeting	\$2,500.00	\$2,500.00	N/A	\$625.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$833.33	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$300.00	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$1,617.75	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Total for all systems	\$3,743,463.10	\$2,786,650.10	N/A	\$201,202.75	N/A
Sub-total	\$83,420.00	\$73,750.00	N/A	\$7,757.58	N/A
File FCC Form 2100 (main), License to Cover Application					
Attorney Fees - Prepare and	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	N/A	N/A

### Components

Actual Information Description	File Name	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Television Repacking Services \$90.00

Project management of the		
ransition	<b>Component Description:</b>	CONSULTING
		WORK WITH
		STAFF TO
		CREATE A
		REPACK FACT
		SHEET.
	Amount:	\$450.00
	Component Description:	Project
		Management
	Amount:	\$2,591.50
	Component Description:	25% downpayment
		for work being
		done by American
		Tower
	Amount:	\$1,250.00
Site Coordination meeting		
	<b>Component Description:</b>	25%
		downpaymaent for
		this component
	Amount:	\$625.00
RF Exposure		
Measurements	Component Description:	25% down
		payment for
		component
	Amount:	\$833.33

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description:  Amount:	FCC repack Review of WTVS 399 \$75.00
	Component Description:	FCC repack: Analysis of WTVS
	Amount:	impact \$225.00
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
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	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description:	Legal services to prepare and review reimbursement form in addition to review & filing reports
	Amount:	\$1,617.75

ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

### **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	\$229,381.10	\$228,831.10		\$15,150.00	
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Local Zoning	\$10,000.00	\$10,000.00	Permits and inspections	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Equipment Storage	\$8,000.00	\$8,000.00	Outdoor covered storage for equipment and parts	N/A	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Site Security	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Lift equipment rental	\$10,000.00	\$10,000.00	N/A	N/A	N/A

Interim antenna tower lease	\$57,000.00	\$57,000.00	N/A	\$14,400.00	N/A
Interim antenna connection	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Employee time	\$75,081.10	\$75,081.10	See Attachment	\$0.00	Please remove this component It was resubmitted under outside professiona services for repack
tower owner permits	\$750.00	\$750.00	N/A	\$750.00	N/A
Sub-total	\$229,381.10	\$228,831.10	N/A	\$15,150.00	N/A
Total for all systems	\$3,743,463.10	\$2,786,650.10	N/A	\$201,202.75	N/A

### Components

Actual Information Description	File Name
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Local Zoning	Information not provided.
DTV Medical Facility Notification	Information not provided.
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Site Security	Information not provided.

Lift equipment rental	Information not provided.	
Interim antenna tower lease	Component Description:	25% downpayment
		on this component
	Amount:	\$14,400.00
Interim antenna connection	Information not provided.	
Employee time		
	Component Description:	this component
		should be removed
	Amount:	\$450.00
tower owner permits		
	Component Description:	Building permit
	Amount:	\$750.00

## Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,743,463.10	\$2,786,650.10	\$201,202.75

Reimburseme	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

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 abovenamed applicant for the Authorization(s) specified above. William
Carignan
General
Accounting
Manager

09/14/2018

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. 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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 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.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. William
Carignan
General
Accounting
Manager

09/14/2018

#### **Attachments**