



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **10267** | Service: **DTV** | Call **WXYZ-TV** | Channel: **25 (UHF)** |
ID: | Sign: |
File **0000027247**
Number:
FRN: **0002710192** | Date **08/12**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
SCRIPPS BROADCASTING HOLDINGS LLC Doing Business As: SCRIPPS MEDIA, INC.	Dave Giles 312 WALNUT STREET 28TH FLOOR CINCINNATI, OH 45202 United States	+1 (513) 977-3000	DAVE.GILES@SCRIPPS.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
Ray Thurber <i>Vice President Engineering</i> SCRIPPS BROADCASTING HOLDINGS LLC	Ray Thurber 312 Walnut St. Cincinnati, OH 45202 United States	+1 (248) 827-9202	ray.thurber@scripps.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	WXYZ must replace its main and auxiliary antenna and main and auxiliary transmitter in order to move it its new channel. See attached narrative for a more detailed explanation.

Transmitters

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

**Auxiliary
Transmitter****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	Sigma CD
	Year	1998
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40.5 kW

**Auxiliary
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	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	31.7 kW
	Justification for New Transmitter	Current transmitter is no longer supported by the manufacturer except for maintenance. Available parts are in very limited supply and in some cases are no longer available. Manufacturer says it cannot be re-tuned.

**Auxiliary
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	Yes
	Description	Necessary switchgear, transformer, conduit, wiring and fuse disconnects as quoted by electrical contractor.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	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 leasehold 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

Auxiliary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**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
	Year	2007
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40.5 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	ULXTE-100
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	58.2 kW
	Justification for New Transmitter	Current Axcera transmitter is orphaned and no longer supported by the manufacturer. Available parts are in very limited supply and in some cases are no longer available. It cannot be re-tuned.

**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	Yes
	Description	Necessary switchgear, transformer, conduit, wiring and fuse disconnects as quoted by electrical contractor.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	30 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	1188.0 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

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	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)	670.0 kW

Manufacturer	
Model	TFU-30DSC-RC
Year	1998

Auxiliary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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 Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	24
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	52.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	540.0 kW
	Manufacturer	

Model	TFU-24WB C160
Year	2019
Justification for New Antenna	Existing main antenna is a coaxial slot antenna that is channel specific and cannot be reused on the new channel.

Auxiliary 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?	Yes

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

**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?	Yes
	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
	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)	1000.0 kW

Manufacturer	
Model	TFU- 26GTH-R 6C40
Year	2008

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?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top 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)	765.0 kW
	Manufacturer	

Model	TFU-22GTH /VP-R 6C140SP
Year	2019
Justification for New Antenna	Existing main antenna is a coaxial slot antenna that is channel specific and cannot be reused on the 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?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
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

Name		Description
Michigan Sales Tax		Michigan Sales Tax for Antenna Expenses

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line**Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	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	Dielectric
	Type	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	1078 feet per run

Primary **Other Transmission Line Expenses Not Listed**

Transmission Line Name	Description
Extension of Ice Bridge	Need to add extension to existing ice bridge to cover new transmission line.
Additional Transmission Line	New transmitter must be located in another building due to lack of space in current transmitter building. 610 ft of additional transmission line is needed. Scripps plans to upgrade from 6-1/8" to 7-3/16" for this additional line.
Michigan Sales Tax	Michigan Sales Tax on Transmission Line Expenses

Auxiliary **Existing Transmission Line**

Transmission Line Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	Dielectric
	Type	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	1022 feet per run

Auxiliary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Required Category - Ignore	Category required due to LMS restrictions

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?	No
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1002464
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 28' 14.0" N-
	Longitude (NAD83)	083° 15' 01.0" W-
	Overall Structure Height	1055.11 feet
	Support Structure Height	989.16 feet
	Ground Elevation Above Mean Sea Level (AMSL)	664.36 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	SCRIPPS MEDIA, INC.
	Date Constructed	12/22/2008

**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
11278	WRIF	FM

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?	Yes

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
PE Review of Rigging Plan	Professional Engineering review of proposed rigging plan as required by ANSI /ASEE A10.48 and ANSI/TIA 322 standards.
Michigan Sales Tax	Michigan Sales Tax on Tower Expenses
Tower Structural Analysis	Tower Structural Analysis

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	Project manager needed to manage all work at transmitter site required to transition to new channel (both the main and interim facilities). With the size of the current engineering staff, WXYZ cannot spare personnel to ensure these tasks are completed.
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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes

	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	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	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	No
	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 Professional Services

Other Professional Services Expenses Not Listed

Services Costs

Name

Description

Site Survey	GatesAir performed a site survey to access changes to facility as necessary to transition to new channel including, power and HVAC requirements, available transmitter room space and existing antenna and transmission line RF characteristics at new channel.
Michigan Sales Tax	Michigan Sales Tax on Professional Services Expenses

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	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	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)?	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

Name	Description
Employee Time	Time needed by Scripps corporate and WXYZ employees to work on the transition to a new channel.
Michigan Sales Tax	Michigan Sales Tax on Other Expenses

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 ULXTE-100	\$3,601,725.00	\$1,544,751.00		\$1,228,093.07	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,203,487.00	A ULXTE-72 transmitter is needed for coverage replication. See attached justification for larger transmitter. WXYZ is installing an upgraded ULXTE-100.	\$1,029,480.07	N/A
Other -- Building Addition Size: 1188.0	<i>\$10,177.00</i>	\$10,177.00	Please see MasterCraft Floors Proposal dated 2/1 /18 and MasterCraft Floors Proposal dated 2/1 /18 Related Email	\$10,177.00	N/A
Other -- HVAC Service Type: C Size:30 (Other)	<i>\$148,000.00</i>	\$148,000.00	Please see attached Kropf Estimate dated 8-24-20	\$5,349.00	N/A

Other Electrical Service: Necessary switchgear, transformer, conduit, wiring and fuse disconnects as quoted by electrical contractor.	\$182,548.00	\$182,548.00	see Estimated Cost Justification WXYZ-TV- 110-1st Primary Transmitter - Other Electrical Service v0	\$182,548.00	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$539.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Please see WXYZ Primary Transmitter Revision Justification Cover Letter	\$539.00	Adding a note here for the invoice the invoice number is GO10004837 /8-1
Auxiliary Transmitter ULXTE-50	\$922,753.20	\$922,753.20		\$566,658.59	
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring and fuse disconnects as quoted by electrical contractor.	\$65,930.00	\$65,930.00	N/A	\$15,657.75	N/A

UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$856,823.20	\$856,823.20	Please see Estimated Cost Justification WXYZ-TV- 150-1st Auxiliary Transmitter - UHF Liquid Cooled Solid State, 31.7 kW v0	\$551,000.84	N/A
Sub-total	\$4,524,478.20	\$2,467,504.20	N/A	\$1,794,751.66	N/A
Total for all systems	\$6,220,889.72	\$4,172,891.42	N/A	\$2,380,564.29	N/A

Components

Actual Information	
Description	File Name
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<p>Component Description: A. Transmitter Amount: \$397,267.00</p> <p>Component Description: A. Transmitter Amount: \$364,770.12</p> <p>Component Description: ULXTE-72 Transmitter Amount: \$267,442.95</p>
Other -- Building Addition Size: 1188.0	<p>Component Description: Supply and Install Amount: \$10,177.00</p>

Other -- HVAC Service Type: C Size:30 (Other)	<table><tr><td>Component Description:</td><td>HVAC Unit Relocation</td></tr><tr><td>Amount:</td><td>\$5,349.00</td></tr></table>	Component Description:	HVAC Unit Relocation	Amount:	\$5,349.00
Component Description:	HVAC Unit Relocation				
Amount:	\$5,349.00				
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring and fuse disconnects as quoted by electrical contractor.	<table><tr><td>Component Description:</td><td>ENGINEERING</td></tr><tr><td>Amount:</td><td>\$17,700.00</td></tr></table>	Component Description:	ENGINEERING	Amount:	\$17,700.00
	Component Description:	ENGINEERING			
	Amount:	\$17,700.00			
	<table><tr><td>Component Description:</td><td>Electrical Work as directed by Purchase Order</td></tr><tr><td>Amount:</td><td>\$2,988.00</td></tr></table>	Component Description:	Electrical Work as directed by Purchase Order	Amount:	\$2,988.00
	Component Description:	Electrical Work as directed by Purchase Order			
	Amount:	\$2,988.00			
	<table><tr><td>Component Description:</td><td>Electrical work rendered as described on the attached Purchase Order.</td></tr><tr><td>Amount:</td><td>\$47,638.50</td></tr></table>	Component Description:	Electrical work rendered as described on the attached Purchase Order.	Amount:	\$47,638.50
	Component Description:	Electrical work rendered as described on the attached Purchase Order.			
Amount:	\$47,638.50				
<table><tr><td>Component Description:</td><td>Upgrade and Replacement</td></tr><tr><td>Amount:</td><td>\$12,300.00</td></tr></table>	Component Description:	Upgrade and Replacement	Amount:	\$12,300.00	
Component Description:	Upgrade and Replacement				
Amount:	\$12,300.00				
<table><tr><td>Component Description:</td><td>Engineering</td></tr><tr><td>Amount:</td><td>\$13,450.00</td></tr></table>	Component Description:	Engineering	Amount:	\$13,450.00	
Component Description:	Engineering				
Amount:	\$13,450.00				
<table><tr><td>Component Description:</td><td>Electrical work</td></tr><tr><td>Amount:</td><td>\$48,471.50</td></tr></table>	Component Description:	Electrical work	Amount:	\$48,471.50	
Component Description:	Electrical work				
Amount:	\$48,471.50				
<table><tr><td>Component Description:</td><td>Electrical work rendered as described on the attached Purchase Order.</td></tr><tr><td>Amount:</td><td>\$40,000.00</td></tr></table>	Component Description:	Electrical work rendered as described on the attached Purchase Order.	Amount:	\$40,000.00	
Component Description:	Electrical work rendered as described on the attached Purchase Order.				
Amount:	\$40,000.00				

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	SNMP Manager for V5 ARC Plus Touch \$539.00
	Component Description: Amount:	Gates Air 1st installment Transmitter \$682,250.42
Other Electrical Service: Necessary switchgear, transformer, conduit, wiring and fuse disconnects as quoted by electrical contractor.	Component Description: Amount:	Electrical Work \$15,657.75
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description: Amount: Component Description: Amount:	ULXTE-50 Transmitter \$284,983.39 Transmitter \$266,017.45

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 TFU-22GTH /VP-R 6C140SP	\$309,147.88	\$263,231.88		\$113,557.33	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$245,916.00	Please see attached Dielectric Quote 700054CMZ-1, less the amount of the elbow complex.	\$108,389.65	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	please see attached Dielectric Quote 700054CMZ-1	\$1,029.80	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	please see attached Dielectric Quote 700054CMZ-1	\$3,520.00	N/A
Michigan Sales Tax	\$617.88	\$617.88	N/A	\$617.88	N/A
Auxiliary Antenna TFU-24WB C160	\$182,356.00	\$182,026.00		\$6,400.00	

UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 540 kW input, horizontally polarized	\$175,626.00	\$175,626.00	Please see Dielectric Quote 700346CMZ-1	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Sub-total	\$491,503.88	\$445,257.88	N/A	\$119,957.33	N/A
Total for all systems	\$6,220,889.72	\$4,172,891.42	N/A	\$2,380,564.29	N/A

Components

Actual Information	
Description	File Name
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Antenna Amount: \$11,667.10
	Component Description: ANTENNA - UHF HIGH Amount: \$96,722.55
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Elbow Complex Amount: \$1,029.80
	Component Description: WXYZ-TV-290-Primary Antenna - Elbow Complex Amount: \$10,298.00

Sweep test of existing antenna	<div> <div> Component Description: Amount: </div> <div> Sweep Test \$640.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> WXYZ-TV-210- Primary Antenna - Sweep Test \$2,880.00 </div> </div>
Michigan Sales Tax	<div> <div> Component Description: Amount: </div> <div> WXYZ-TV-210- Primary Antenna - Michigan Sales Tax \$617.88 </div> </div>
UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 540 kW input, horizontally polarized	Information not provided.
Sweep test of existing antenna	<div> <div> Component Description: Amount: </div> <div> INCLUDES ONE FIELD ENGINEER ON- SITE FOR ONE DAY, TRAVEL, EXPENSES AND REPORT \$6,400.00 </div> </div>

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
Primary Transmission Line	\$174,923.26	\$174,923.26		\$74,583.57	
Extension of Ice Bridge	<i>\$56,440.00</i>	\$56,440.00	N/A	N/A	N/A
Michigan Sales Tax	<i>\$1,254.36</i>	\$1,254.36	N/A	\$1,254.36	N/A
Additional Transmission Line	<i>\$117,228.90</i>	\$117,228.90	N/A	\$73,329.21	N/A
Auxiliary Transmission Line	\$0.00	\$0.00		\$0.00	
Required Category - Ignore	<i>\$0.00</i>	\$0.00	Category required due to LMS restrictions	N/A	N/A
Sub-total	\$174,923.26	\$174,923.26	N/A	\$74,583.57	N/A
Total for all systems	\$6,220,889.72	\$4,172,891.42	N/A	\$2,380,564.29	N/A

Components

Actual Information	
Description	File Name
Extension of Ice Bridge	Information not provided.
Michigan Sales Tax	<div>Component Description:MI Sales Tax-Invoice 485001</div> <div>Amount:\$1,254.36</div>

Additional Transmission Line	Component Description: Transmission Line Amount: \$515.70
	Component Description: WXYZ-TV-310-Primary Transmission Line - Additional Amount: Transmission Line \$2,320.65
	Component Description: OTHER- FEED THROUGH COMPONENTS Amount: \$20,906.00
	Component Description: RIGID TRANSMISSION Amount: \$70,492.86
Required Category - Ignore	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	\$751,850.00	\$803,378.00		\$311,824.00	
PE Review of Rigging Plan	<i>\$7,500.00</i>	\$7,500.00	N/A	\$4,000.00	N/A
Michigan Sales Tax	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
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	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Tower Helicopter Lift	<i>\$70,500.00</i>	\$70,500.00	Please see ERI Change Order Detroit - 36244 - Helicopter	\$47,800.00	N/A

Tall Tower (greater than 500')	\$210,500.00	\$284,328.00	see Estimated Cost Justification WXYZ-TV- 410- Existing Primary Tower - Tower Rigging, Tall Tower v0	\$243,974.00	N/A
Tower Structural Analysis	\$16,050.00	\$16,050.00	see Estimated Cost Justification WXYZ-TV- 410- Existing Primary Tower - Tower Structural Analysis v0	\$16,050.00	N/A
Sub-total	\$751,850.00	\$803,378.00	N/A	\$311,824.00	N/A
Total for all systems	\$6,220,889.72	\$4,172,891.42	N/A	\$2,380,564.29	N/A

Components

Actual Information

Description	File Name
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PE Review of Rigging Plan	Component Description: WXYZ-TV-410-Existing Primary Tower - Professional Engineer Review of Rigging Plan Amount: \$800.00	
	Component Description: WXYZ-TV-410-Existing Primary Tower - Professional Engineer Review of Rigging Plan Amount: \$3,200.00	
Michigan Sales Tax	Information not provided.	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.	
Major tower reinforcement /modifications	Information not provided.	
Tower Helicopter Lift	Component Description: Helicopter Antenna Install Amount: \$47,800.00	

Tall Tower (greater than
500')

Component Description: Install -Antenna
Weather day (11-
24-18)
Amount: \$7,800.00

Component Description: Main Antenna
Installation
Amount: \$54,446.80

Component Description: Installation
Services
Amount: \$13,611.70

Component Description: Transmission Line
Installation
Amount: \$25,951.50

Component Description: Transmission Line
Installation
Amount: \$25,951.50

Component Description: Installation
Services
Amount: \$44,154.00

Component Description: Installation
Services
Amount: \$72,058.50

Tower Structural Analysis		
	Component Description:	Re-Run Analysis of 985' Guyed Tower w/optimized Re-Pack antenna
	Amount:	\$1,800.00
	Component Description:	Analysis 985' Guyed Tower
	Amount:	\$14,250.00

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	\$162,989.00	\$166,109.00		\$56,938.85	
Michigan Sales Tax	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Site Survey	<i>\$17,684.00</i>	\$17,684.00	N/A	N/A	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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	\$150.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$225.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	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
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	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	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$94,010.00	\$99,675.00	Please see Estimated Cost Justification WXYZ-TV- 510-Project Management v0	\$56,563.85	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Sub-total	\$162,989.00	\$166,109.00	N/A	\$56,938.85	N/A
Total for all systems	\$6,220,889.72	\$4,172,891.42	N/A	\$2,380,564.29	N/A

Components

Actual Information	
Description	File Name
Michigan Sales Tax	Information not provided.
Site Survey	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<p>Component Description:</p> <p>Prep of App for License to Cover CP for \$150.00 (out of an invoice total of \$300.00) needs to be processed under WXYZ-TV-530-RF Eng - Construction Permit Application (Main)</p> <p>Amount:</p> <p>\$150.00</p>
Perform engineering study for new channel assignment and antenna development	<p>Component Description:</p> <p>WXYZ-TV-530-RF Eng - Engineering Study for New Channel Assignment</p> <p>Amount:</p> <p>\$225.00</p>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare and or review reimbursement form	Information not provided.
Project management of the transition	

Component Description:	FCC Repack
Amount:	\$75.00

Component Description:	Professional Services
Amount:	\$75.00

Component Description:	Project Management
Amount:	\$7,810.95

Component Description:	Project Management
Amount:	\$5,522.05

Component Description:	Project Management
Amount:	\$6,697.45

Component Description:	Professional Services
Amount:	\$150.00

Component Description:	Preparation of 387 2019 Q2 Update
Amount:	\$75.00

Component Description:	Project Management
Amount:	\$64.80

Component Description:	Project Management
Amount:	\$64.95

Component Description:	Project Management
Amount:	\$2,957.20

Component Description:	Project Management
Amount:	\$269.05

Component Description:	Project Management
Amount:	\$2,546.45

Component Description:	Project Management
Amount:	\$3,786.65

Component Description:	Project Management
Amount:	\$8,262.20

Component Description:	Project Management
Amount:	\$2,965.80

Component Description:	Project Management
Amount:	\$5,750.15

Component Description:	Project Management
Amount:	\$2,238.95

Component Description:	Project Management
Amount:	\$485.80

	Component Description:	Preparation of STA and ERP/tpo Calculations
	Amount:	\$75.00
	Component Description:	Project Management
	Amount:	\$5,976.40
	Component Description:	Project Management
	Amount:	\$340.00
	Component Description:	FCC Repack
	Amount:	\$150.00
	Component Description:	Professional Services
	Amount:	\$150.00
	Component Description:	Preparation of 387 Quarterly Update
	Amount:	\$75.00
RF Exposure Measurements	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	\$115,145.38	\$115,719.08		\$22,508.88	
MVPD Notification of Channel Change	<i>\$5,150.38</i>	\$5,150.38	see Estimated Cost Justification WXYZ-TV-610-MVPD Notifications v0	\$5,150.38	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
Michigan Sales Tax	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$12,173.70	see Estimated Cost Justification WXYZ-TV-610-Medical Facility Notifications v0	\$12,173.70	N/A
Local Zoning	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$25,000.00</i>	\$25,000.00	N/A	\$5,184.80	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$17,000.00	\$17,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Employee Time	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$115,145.38	\$115,719.08	N/A	\$22,508.88	N/A
Total for all systems	\$6,220,889.72	\$4,172,891.42	N/A	\$2,380,564.29	N/A

Components

Actual Information	
Description	File Name
MVPD Notification of Channel Change	<p>Component Description: MVPD Notification Services</p> <p>Amount: \$5,150.38</p>
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
Michigan Sales Tax	Information not provided.

DTV Medical Facility Notification	Component Description:	DTV Notification Service
	Amount:	\$6,086.85
	Component Description:	Notification of Medical Facilities
	Amount:	\$6,086.85
Local Zoning	Information not provided.	
Non-zoning permits	Component Description:	Permitting Submittal Package
	Amount:	\$4,684.80
	Component Description:	Scope of Services
	Amount:	\$500.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Employee Time	Information not provided.	

**Cost
Information**

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$6,220,889.72	\$4,172,891.42	\$2,380,564.29

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	<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>Sravan Reddy , Reddy . <i>Senior Director, General Accounting</i></p> <p>08/12/2020</p>

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 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol style="list-style-type: none"> 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. 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) .
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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</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>Sravan Reddy , Reddy . <i>Senior Director, General Accounting</i></p> <p>08/12/2020</p>

Attachments