

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 74094 Service: DTV Call WSYM-TV Channel: 28 (UHF)

ID: Sign:

ID: File

0000027264

Number:

FRN: **0002710192** Date **02/11**

Submitted: /2021

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
SCRIPPS BROADCASTING HOLDINGS LLC Doing Business As: SCRIPPS BROADCASTING HOLDINGS LLC	David Giles 312 WALNUT STREET 28TH FLOOR CINCINNATI, OH 45202 United States	+1 (513) 977- 3000	DAVE. GILES@SCRIPPS. COM	Limited Liability Company

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
Ray Thurber Vice President Engineering 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	WSYM must replace its main antenna and transmitter in order to move it its new channel. It will need to install interim facilities in order to be able to replace the main facility. See attached narrative for a more detailed explanation.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	GatesAir
Manufacturer and Type	Model	UAXT2

Year	2015
Туре	Solid State
Solid State Cooling	Air Cooled
Solid State Power capacity	1.8 kW

Auxiliary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	3 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

Auxiliary Transmitter

Other Transmitter Costs

Question	Response
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
	Service Entrance (3 phases 800A 208V) Switchgear (industrial 800 amp) Transformer (480V) Power Rigid Conduit and Wiring Size Length

	Description	Necessary conduit, wiring as quoted by electrical contractor for relocation inside the building.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description	
Michigan Sales Tax	Michigan Sales Tax on Retuning Costs	

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	
Manufacturer and Type	Model	Sigma CD 3100
	Year	2002
	Туре	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	21 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?	No
	Manufacturer	
	Model	ULXTE-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	12.9 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.

Primary Transmitter

Other Transmitter Costs

•	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	Yes

Transformer (480V)	Yes
Power	150 kVA
Rigid Conduit and Wiring	No
Size	N/A
Length	N/A
Other Electrical Service	Yes
Description	Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.
Does the replacement transmitter require HVAC Service?	No
Туре	N/A
Size	N/A
Other Size	N/A
Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Size	N/A
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
	Power Rigid Conduit and Wiring Size Length Other Electrical Service Description Does the replacement transmitter require HVAC Service? Type Size Other Size Does the Transmitter Building require an addition, modification, other leashold improvement? Size Is an RF Consulting Engineer needed? Is a channel 14 Mask Filer needed? Is additional field engineering time needed?

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Mask Filter	Primary Transmitter - Mask Filter

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?	Yes
	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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	933.0 kW
		1

Manufacturer	
Model	JSM-24 /38SHBP
Year	2002

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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	487.0 kW
	Manufacturer	

Model	TFU-24GTH- R BP290
Year	2019
Justification for New Antenna	The transmission line must be replaced because the segment length is prohibited on the new channel. If Scripps replaces the 4-1/16" line with the same size line, the required TPO is 19 kW. A GatesAir ULXTE-40 transmitter is needed to supply the TPO.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	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
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

Other Antenna Cost Not Listed

Name	Description
Michigan Sales Tax	Michigan Sales Tax on Antenna Expenses

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?	Yes
	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	Horizontal
	Туре	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	30.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	300.0 kW
	Manufacturer	
	Model	TFU-16WB C160
	Year	2019

Justification for New Antenna	WSYM will need an interim antenna for operation while it replaces the
	replaces the main
	antenna for
	its new
	channel.
	channel.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Interim Antenna Mods for Helicopter Pick	Interim antenna modifications including drilling holes for helicopter pick connection

Transmission ^{ବୁମ୍ବୀତୁନ}	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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	980 feet per

Primary Transmission

New Transmission Line

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 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1000 feet per run
	Justification for New Transmission Line	The current transmission line segment lines will not work on the new channel so the line must be replaced.

Primary

Other Transmission Line Expenses Not Listed

Transmission	Hame	Description	
	Michigan Sales Tax	Michigan Sales Tax on Transmission Line Expenses	

Interim

New Transmission Line

Transmission	Section	Question	Response
	New Transmission Line Costs	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	4 1/16 inches
		Segment Length	Broadband
		Other Segment Length	
		Number of parallel runs	1
		Length	760 feet per run
		Justification for New Transmission Line	WSYM will need an interim facility for operation while it replaces its main facility. The interim antenna will need transmission line.

Interim Other Transmission Line Expenses Not Listed

Transmissionn Lineation 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

Section	Question	Response
existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1005429
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	42° 28' 03.0 N-
	Longitude (NAD83)	084° 39' 06.0" W-
	Overall Structure Height	1036.08 fee
	Support Structure Height	987.52 feet
	Ground Elevation Above Mean Sea Level (AMSL)	918.62 feet

-	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Scripps Broadcasting Holdings LLC
	Date Constructed	01/01/1981

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:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

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

Outside Professional

Section	Question	Response
Services Costs 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, WSYM 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	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	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	1
	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	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

Other Professional Services Expenses Not Listed

Services Costs	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

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	No
	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?	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 De	escription
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Employee Time	Time needed by Scripps corporate and WSYM employees to work on the transition to a new channel.
Michigan Sales Tax	Michigan Sales Tax on Other Expenses
In-Building Deconstruction	Work necessary to disassemble and remove existing transmitter, beam supplies, step starts, heat exchangers and mask filter.

Cost Information

Transmitters

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

Description Primary	Predetermined Cost Estimate \$581,735.41	Estimated Cost \$529,999.76	Estimated Cost Justification	Actual Cost \$471,399.71	Actual Cost Justification
Transmitter ULXTE-20					
Mask Filter	\$4,685.41	\$4,685.41	Please see WSYM-TV GatesAir quote GA- 00021738, plus tax on invoice US0315021	\$4,685.40	N/A
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	\$18,800.00	\$18,800.00	see Estimated Cost Justification WSYM-TV- 110-1st Primary Transmitter - Other Electrical Service v0	\$18,800.00	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	\$2,000.00	N/A

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$445,914.35	see Estimated Cost Justification WSYM-TV- 110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 8.2-13 kW v0	\$445,914.31	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$0.00	N/A
Auxiliary Transmitter UAXT2	\$121,655.00	\$116,250.00		\$7,500.25	
Michigan Sales Tax	\$0.00	\$0.00	N/A	\$0.00	N/A
3 kW mask filter	\$4,155.00	\$3,950.00	N/A	\$0.00	N/A
Other Electrical Service: Necessary conduit, wiring as quoted by electrical contractor for relocation inside the building.	\$12,300.00	\$12,300.00	N/A	\$0.00	N/A
UHF and VHF - minor banding	\$105,200.00	\$100,000.00	N/A	\$7,500.25	N/A
issues					

Total for all	\$2,551,636.39	\$3,188,576.15	N/A	\$2,425,465.10	N/A
systems					

Components

Actual Information Description	File Name	
Mask Filter	Component Description: Amount:	Freight \$4,685.40
Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor.	Component Description: Amount:	Second Draw \$18,800.00
Transformer 3 phase/480v - 150 KVA	Component Description: Amount:	First Draw \$2,000.00

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Component Description: Amount:	Transmitter \$131,793.73
	Component Description: Amount:	Transmitter \$45,358.45
	Component Description: Amount:	Transmitter \$17,133.30
	Component Description: Amount:	Transmitter \$107,127.48
	Component Description:	WSYM-TV-110-1s Primary Transmitter - UHF Liquid Cooled Solid State, 8.2-1s
	Amount:	\$3,000.00
	Component Description: Amount:	WSYM Repack Transmitter Package \$141,501.35
Switchgear - industrial 800 amp	Information not provided.	
Michigan Sales Tax	Information not provided.	
3 kW mask filter	Information not provided.	
Other Electrical Service: Necessary conduit, wiring as quoted by electrical contractor for relocation inside the building.	Information not provided.	

UHF and VHF - minor banding issues

Component Description: Amount:

Field Service, TV

\$7,500.25

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 TFU-16WB C160	\$199,230.00	\$189,200.00		\$97,932.50	
Sweep test of existing antenna	\$6,730.00	\$6,200.00	The estimated cost has been adjusted to only include one sweep test.	\$6,200.00	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$180,000.00	N/A	\$91,732.50	N/A
Interim Antenna Mods for Helicopter Pick	\$3,000.00	\$3,000.00	Please see Dielectric order confirmation 1419002	\$0.00	N/A
Primary Antenna TFU- 24GTH-R BP290	\$266,030.00	\$235,641.00		\$163,968.20	
Michigan Sales Tax	\$0.00	\$0.00	N/A	\$0.00	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	Please see Dielectric Quote 700053CMZ- 2	\$9,268.20	N/A
Sweep test of existing antenna	\$6,730.00	\$13,850.00	Estimated Cost Justification WSYM-TV- 210-Primary Antenna - Sweep Test v0	\$7,010.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$211,493.00	Please see Dielectric Quote 700053CMZ- 2	\$147,690.00	N/A
Sub-total	\$465,260.00	\$424,841.00	N/A	\$261,900.70	N/A
Total for all systems	\$2,551,636.39	\$3,188,576.15	N/A	\$2,425,465.10	N/A

Components

Actual Information		
Description	File Name	

Sweep test of existing antenna		
	Component Description:	WSYM-TV-280-
		Interim Antenna -
		Sweep test
	Amount:	\$6,200.00
	Component Description:	Invoice removed
		from category per
		NMI message.
	Amount:	N/A
	Component Description:	Invoice removed
		from category per
		NMI message.
	Amount:	N/A
UHF - Lower Power Side		
Mount, One station - 200- 500 kW, horizontally	Component Description:	ANTENNAS - UHF
polarized		BROADBAND
p 0.03		SIDE MOUNT AUX
		/INTERIM
	Amount:	\$45,866.25
	Component Description:	Antennas
	Amount:	\$45,866.25
Interim Antenna Mods for Helicopter Pick	Information not provided.	
Michigan Sales Tax	Information not provided.	

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	WSYM-TV-210- Primary Antenna - Elbow Complex
	Amount:	\$4,634.10
	Component Description:	WSYM-TV-210- Primary Antenna -
	Amount:	Elbow Complex \$4,634.10
Sweep test of existing		
antenna	Component Description:	WSYM-TV-210- Primary Antenna - Sweep Test : \$1,250.00
	Amount:	\$1,250.00
	Component Description:	WSYM-TV-210-
		Primary Antenna - Sweep Test
	Amount:	\$2,880.00
	Component Description:	WSYM-TV-210- Primary Antenna - Sweep Test
	Amount:	\$2,880.00
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally	Component Description:	UHF - HIGH POWER
polarized	Amount:	\$73,845.00
	Component Description:	UHF - HIGH
	Amount:	POWER \$73,845.00

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	\$123,880.00	\$117,800.00		\$95,269.96	
Rigid Transmission Line - copper, 4 1 /16" broadband	\$123,880.00	\$117,800.00	N/A	\$95,269.96	N/A
Primary Transmission Line	\$202,000.00	\$192,000.00		\$128,573.48	
Rigid Transmission Line - copper, 6 1/8"	\$202,000.00	\$192,000.00	N/A	\$128,573.48	N/A
Michigan Sales Tax	\$0.00	\$0.00	N/A	\$0.00	N/A
Sub-total	\$325,880.00	\$309,800.00	N/A	\$223,843.44	N/A
Total for all systems	\$2,551,636.39	\$3,188,576.15	N/A	\$2,425,465.10	N/A

Actual Information	
Description	File Name

Rigid Transmission Line - copper, 4 1/16" broadband

Component Description: WSYM-TV-380-

Interim Transmission Line - 4 1/16" Rigid Copper, Broadband

Amount: \$45,357.48

Component Description: TUBE CU 1.711 OD

X 1.66 ID

Amount: \$240.00

Component Description: WSYM-TV-380-

Interim Transmission Line - 4 1/16" Rigid Copper, Broadband

Amount: \$45,357.48

Component Description: Rigid Transmission

Line- Copper

Amount: \$4,315.00

Rigid Transmission Line copper, 6 1/8"	Component Description:	Reducer 6-50 EIA X
		4-50 EIA CU "QS
	Amount:	\$2,315.05
	Component Description:	WSYM-TV-310- Primary
		Transmission Line -
		6 1/8" Rigid Copper
	Amount:	\$61,023.37
	Component Description:	Freight and shipping
	Amount:	\$2,244.40
	Component Description:	WSYM-TV-310-
	Component Description.	Primary
		Transmission Line -
		6 1/8" Rigid Copper
	Amount:	\$61,023.37
	Component Description:	RIGID
	, , , , , , , , , , , , , , , , , , ,	TRANSMISSION
		LINE- COPPER
	Amount:	\$1,967.29
Michigan Sales Tax	Information not provided.	

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
Primary Tower TOWER	\$655,594.50	\$1,360,969.38		\$1,351,234.37
Tall Tower (greater than 500')	\$210,500.00	\$475,922.73	Please see Estimated Cost Justification WSYM-TV-410- Existing Primary Tower - Tower Rigging, Tall Tower v1	\$475,922.72
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$9,765.00
Major tower reinforcement /modifications	\$421,000.00	\$861,552.15	see Estimated Cost Justification WSYM-TV-410- Existing Primary Tower - Major Tower Reinforcement_Modifications v0	\$861,552.15
PE Review of Rigging Plan	\$7,500.00	\$7,500.00	N/A	\$0.00
Tower Orientation Study	\$3,994.50	\$3,994.50	Please see WSYM-TV Warmus and Associates contract TS18-031EX	\$3,994.50
Michigan Sales Tax	\$0.00	\$0.00	N/A	\$0.00
Sub-total	\$655,594.50	\$1,360,969.38	N/A	\$1,351,234.37
Total for all systems	\$2,551,636.39	\$3,188,576.15	N/A	\$2,425,465.10

Actual Information Description	File Name	
Tall Tower (greater than 500')		
	Component Description:	Materials Supplied, not included in Contract TS19-034
	Amount:	\$2,173.34
	Component Description:	Tower services rendered
	Amount:	\$192,763.53
	Component Description:	Main Antenna
	Amount:	Installation \$280,985.85
Structural engineering tower load study for well		
documented tower	Component Description:	WSYM-TV-410- Existing Primary Tower - Tower
		Load Study, Documented
	Amount:	Tower \$9,765.00
Major tower reinforcement /modifications		
	Component Description:	Tower Services Rendered
	Amount:	\$861,552.15
PE Review of Rigging Plan	Information not provided.	
Tower Orientation Study	Component Description	Engine a stine
	Component Description:	Engineering Services
	Amount:	\$3,994.50
Michigan Sales Tax	Information not provided.	

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 Co
Outside Professional Services	\$167,935.00	\$213,704.53		\$88,742.49	
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$1,146.50	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$125.00	Please see WSYM-TV RF Eng-License to Cover Application (Aux) Budget Revision Justification Letter	\$125.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$812.50	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$925.00	Please see WSYM-TV RF Eng- Construction Permit Application (Aux) Budget Revision Justification Letter	\$925.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$6,379.53	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$6,379.53	Please se submitte invoices
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,856.01	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	Estimated Cost Justification WSYM-TV- 510-Project Management v0	\$75,497.95	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	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	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$62,450.00	per MSW quote dated 12 /9/2020	N/A	N/A
Site Survey	\$16,900.00	\$16,900.00	N/A	N/A	N/A
Michigan Sales Tax	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$167,935.00	\$213,704.53	N/A	\$88,742.49	N/A
Total for all systems	\$2,551,636.39	\$3,188,576.15	N/A	\$2,425,465.10	N/A

Actual Information	
Description	File Name

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description:	WSYM-TV-RF Eng- Construction Permit Application (Aux)
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Preparation of the engineering portion \$812.50
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Component Description: Amount:	WSYM-TV-RF Eng- License to Cover Application (Aux) \$125.00
Prepare request for Special Temporary Authorization	Component Description: Amount:	Professional Engineering Services Rendered during December \$1,146.50
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	

of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Permitting Submittal Package \$4,300.00
	Component Description:	WSYM-TV-530-RF Eng - Construction Permit Application
	Amount:	(Main) : \$2,079.53 \$2,079.53
Perform engineering study for new channel assignment and antenna development	Component Description:	Professional Engineering
	Amount:	Services Rendered August, 2019 \$1,031.01
	Component Description:	Engineering services rendered
	Amount:	\$500.00
	Component Description:	Professional Engineering Services
	Amount:	\$2,100.00
	Component Description: Amount:	FCC Repack \$225.00
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description:	Project
	•	•

Component Description: Project

Management \$6,158.70

Amount:

Project

Management

Amount:

\$1,671.45

Component Description:

Component Description:

Project

Amount:

Management \$4,376.80

Component Description:

Project

Amount:

Management \$3,000.80

Component Description:

Project

Amount:

Management \$3,555.80

Component Description: Project

Management

Amount: \$2,771.40

Component Description: 387 Update, 2019

4th Quarter

Amount: \$75.00

Component Description: Project

Management

Amount: \$64.95

Component Description: Project

Management

Amount: \$9,065.55

Component Description: 387 Update 5 Days

After Construction

Complete

Amount: \$150.00

Component Description: Project

Management

Amount: \$567.05

Component Description: FC0

Amount:

FCC Repack \$75.00

Component Description: Project

Management

Amount: \$64.80

Component Description: FOR SERVICES

RENDERED

Amount: \$75.00

Component Description: Project

Management

Amount: \$8,639.00

Component Description: Preparation of STA

and ERP/tpo Calculations

Amount: \$75.00

Component Description: Project

Management

Amount: \$2,107.70

Component Description: FCC Repack

Amount: \$75.00

Component Description: Project

Management \$7,417,65

Amount: \$7,417.65

Component Description: Project

Management

Amount: \$240.00

Component Description: Project

Management

Amount: \$3,903.45

Component Description: FCC Repack

Amount: \$75.00

Component Description: FCC Repack

Amount: \$75.00

Component Description: Project

Management

Amount: \$2,275.40

Component Description: Project

Management

Amount: \$6,063.70

Component Description: Project

Management

Amount: \$4,425.95

Component Description: FOR SERVICES

RENDERED

Amount: \$150.00

	Component Description: Amount:	Project Management \$276.55
	Component Description: Amount:	Project Management \$2,415.95
	Component Description: Amount:	FOR SERVICES RENDERED \$75.00
ASR modification (prepare FCC Form 854)	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
RF Exposure Measurements	Information not provided.	
Site Survey	Information not provided.	
Michigan Sales Tax	Information not provided.	

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	\$233,576.48	\$233,011.48		\$20,844.14	
In-Building Deconstruction	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Michigan Sales Tax	\$0.00	\$0.00	N/A	N/A	N/A
Employee Time	\$79,749.32	\$79,749.32	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,547.16	\$2,547.16	see Estimated Cost Justification WSYM-TV- 610-MVPD Notifications v0	\$2,547.16	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	\$0.00	N/A
Equipment Storage	\$20,000.00	\$20,000.00	N/A	\$2,445.00	N/A
Equipment Delivery and Handling Charges	\$14,200.00	\$14,200.00	N/A	\$10,695.49	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	\$1,009.00	N/A

Non-zoning permits	\$25,000.00	\$25,000.00	N/A	\$845.24	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,302.25	N/A
Local Zoning	\$25,000.00	\$25,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Sub-total	\$233,576.48	\$233,011.48	N/A	\$20,844.14	N/A
Total for all systems	\$2,551,636.39	\$3,188,576.15	N/A	\$2,425,465.10	N/A

Actual Information Description	File Name	
In-Building Deconstruction	Information not provided.	
Michigan Sales Tax	Information not provided.	
Employee Time	Information not provided.	
MVPD Notification of Channel Change	Component Description: Amount:	MVPD Notification Services \$2,547.16
Develop and air announcement of upcoming channel change	Information not provided.	

	Component Description:	WSYM-TV-610- Equipment Storage
	Amount:	\$2,445.00
Equipment Delivery and		
Handling Charges	Component Description:	Other
	Amount:	\$3,067.01
	Component Description:	Other
	Amount:	\$2,473.87
	Component Description:	Other
	Amount:	\$4,860.00
	Component Description:	DIGIT T/L SET
	Amount:	TOOL 4", 6", AND 7 \$294.61
Disposal Costs (for equipment and other waste,	Component Description:	DEMOED ALL OLD
net of any salvage value)		TRANSMITTER EQUIPMENT ON
		INSIDE OF
		BUILDING AND ON EXTERIOR.
	Amount:	\$1,009.00
Non-zoning permits		
	Component Description:	WSYM-TV-610-Non-Zoning Permits:
	Amount:	\$345.24 \$345.24
	Component Description:	Permitting Analysis Review
		IZEVIEW

FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	DTV Notification Service \$3,302.25
Local Zoning	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,551,636.39	\$3,188,576.15	\$2,425,465.10

Reimbursem	eAt est iatus	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. Sravan V
Reddy,
Reddy.
Senior
Director,
General
Accounting

02/11/2021

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. Sravan V
Reddy ,
Reddy .
Senior
Director,
General
Accounting

02/11/2021

Attachments