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

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **74094** | Service: **DTV** | Call Sign: **WSYM-TV** | Channel: **28 (UHF)**

File Number: **0000027264**

FRN: **0002710192** | Date Submitted: **03/29/2021**

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 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 *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

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 and Type	Manufacturer	GatesAir
	Model	UAXT2

	Year	2015
	Type	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

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 conduit, wiring as quoted by electrical contractor for relocation inside the building.
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 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 and Type	Manufacturer	
	Model	Sigma CD 3100
	Year	2002
	Type	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.
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 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

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

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	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)	933.0 kW

Manufacturer	
Model	JSM-24 /38SHBP
Year	2002

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	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	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.

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 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 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 Manufacturer and Type	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	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 main antenna for its new 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 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	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	
	Type	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 run

Primary Transmission Line

New Transmission 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
	Type	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 Transmission Line

Other Transmission Line Expenses Not Listed

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

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	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 Transmission Line

Other Transmission Line Expenses Not Listed

Information 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 feet
	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
Primary Tower - Fencing	Primary Tower - Fencing
Michigan Sales Tax	Michigan Sales Tax on Tower Expenses
PE Review of Rigging Plan	Professional Engineering review of proposed rigging plan as required by ANSI/ASEE A10.48 and ANSI/TIA 322 standards.

Tower Orientation Study	Tower Orientation Study required for repack

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, 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 Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	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 Services Costs

Other Professional Services Expenses Not Listed

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

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	Description

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	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-20	**$581,735.41**	**$529,999.76**		**$471,399.71**	
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
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	$0.00	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
Auxiliary Transmitter UAXT2	**$121,655.00**	**$116,250.00**		**$7,500.25**	
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 issues	$105,200.00	$100,000.00	N/A	$7,500.25	N/A
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
Sub-total	$703,390.41	$646,249.76	N/A	$478,899.96	N/A
Total for all systems	$2,578,236.39	$3,215,176.15	N/A	$2,434,616.05	N/A

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
Switchgear - industrial 800 amp	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	**Component Description:** Transmitter **Amount:** $131,793.73 **Component Description:** Transmitter **Amount:** $107,127.48 **Component Description:** WSYM-TV-110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 8.2-13 kW **Amount:** $3,000.00 **Component Description:** Transmitter **Amount:** $17,133.30 **Component Description:** Transmitter **Amount:** $45,358.45 **Component Description:** WSYM Repack Transmitter Package **Amount:** $141,501.35
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:** Field Service, TV **Amount:** $7,500.25
Michigan Sales Tax	Information not provided.
3 kW mask filter	Information not provided.

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-16WB C160	**$199,230.00**	**$189,200.00**		**$97,932.50**	
Interim Antenna Mods for Helicopter Pick	***$3,000.00***	$3,000.00	Please see Dielectric order confirmation 1419002	$0.00	N/A
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
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
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
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
Sub-total	$465,260.00	$424,841.00	N/A	$261,900.70	N/A
Total for all systems	$2,578,236.39	$3,215,176.15	N/A	$2,434,616.05	N/A

Components

Actual Information Description	File Name
Interim Antenna Mods for Helicopter Pick	Information not provided.

Sweep test of existing antenna	**Component Description:** **Amount:**	WSYM-TV-280-Interim Antenna - Sweep test $6,200.00
	Component Description: **Amount:**	Invoice removed from category per NMI message. N/A
	Component Description: **Amount:**	Invoice removed from category per NMI message. N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	**Component Description:** **Amount:**	ANTENNAS - UHF BROADBAND SIDE MOUNT AUX /INTERIM $45,866.25
	Component Description: **Amount:**	Antennas $45,866.25
Michigan Sales Tax	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	WSYM-TV-210-Primary Antenna - Elbow Complex $4,634.10
	Component Description: **Amount:**	WSYM-TV-210-Primary Antenna - Elbow Complex $4,634.10

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	**Component Description:** **Amount:**	UHF - HIGH POWER $73,845.00
	Component Description: **Amount:**	UHF - HIGH POWER $73,845.00
Sweep test of existing antenna	**Component Description:** **Amount:**	WSYM-TV-210-Primary Antenna - Sweep Test $2,880.00
	Component Description: **Amount:**	WSYM-TV-210-Primary Antenna - Sweep Test : $1,250.00 $1,250.00
	Component Description: **Amount:**	WSYM-TV-210-Primary Antenna - Sweep Test $2,880.00

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	**$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**	
Michigan Sales Tax	***$0.00***	$0.00	N/A	$0.00	N/A
Rigid Transmission Line - copper, 6 1/8"	$202,000.00	$192,000.00	N/A	$128,573.48	N/A
Sub-total	$325,880.00	$309,800.00	N/A	$223,843.44	N/A
Total for all systems	$2,578,236.39	$3,215,176.15	N/A	$2,434,616.05	N/A

Components

Actual Information Description	File Name

Rigid Transmission Line - copper, 4 1/16" broadband	**Component Description:** **Amount:**	TUBE CU 1.711 OD X 1.66 ID $240.00
	Component Description: **Amount:**	WSYM-TV-380-Interim Transmission Line - 4 1/16" Rigid Copper, Broadband $45,357.48
	Component Description: **Amount:**	Rigid Transmission Line- Copper $4,315.00
	Component Description: **Amount:**	WSYM-TV-380-Interim Transmission Line - 4 1/16" Rigid Copper, Broadband $45,357.48
Michigan Sales Tax	Information not provided.	

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:	RIGID TRANSMISSION LINE- COPPER
	Amount:	$1,967.29
	Component Description:	Freight and shipping
	Amount:	$2,244.40
	Component Description:	WSYM-TV-310-Primary Transmission Line - 6 1/8" Rigid Copper
	Amount:	$61,023.37

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
Primary Tower TOWER	**$682,194.50**	**$1,387,569.38**		**$1,351,234.37**
PE Review of Rigging Plan	***$7,500.00***	$7,500.00	N/A	$0.00
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
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	$9,765.00
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
Tower Orientation Study	***$3,994.50***	$3,994.50	Please see WSYM-TV Warmus and Associates contract TS18-031EX	$3,994.50
Primary Tower - Fencing	***$26,600.00***	$26,600.00	Please see Dewitt Fence Co. Proposal dated 2/1/21	N/A
Michigan Sales Tax	***$0.00***	$0.00	N/A	$0.00
Sub-total	$682,194.50	$1,387,569.38	N/A	$1,351,234.37
Total for all systems	$2,578,236.39	$3,215,176.15	N/A	$2,434,616.05

Components

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

Michigan Sales Tax	Information not provided.

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificati
Outside Professional Services	**$167,935.00**	**$213,704.53**		**$97,893.44**	
Michigan Sales Tax	***$0.00***	$0.00	N/A	N/A	N/A
Site Survey	***$16,900.00***	$16,900.00	N/A	N/A	N/A
RF Exposure Measurements	$21,050.00	$62,450.00	per MSW quote dated 12 /9/2020	$1,875.00	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
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	N/A	N/A
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
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	$4,778.51	N/A
Project management of the transition	$94,010.00	$99,675.00	Estimated Cost Justification WSYM-TV-510-Project Management v0	$81,851.40	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 and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A
Sub-total	$167,935.00	$213,704.53	N/A	$97,893.44	N/A
Total for all systems	$2,578,236.39	$3,215,176.15	N/A	$2,434,616.05	N/A

Components

Actual Information Description	File Name
Michigan Sales Tax	Information not provided.
Site Survey	Information not provided.

RF Exposure Measurements	**Component Description:** **Amount:**	Professional Engineering Services $1,875.00
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
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.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	**Component Description:** **Amount:**	Professional Engineering Services Rendered during December $1,146.50
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 engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	Preparation of the engineering portion $812.50

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Permitting Submittal Package $4,300.00
	Component Description: **Amount:**	WSYM-TV-530-RF Eng - Construction Permit Application (Main) : $2,079.53 $2,079.53
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Professional Engineering Services $2,100.00
	Component Description: **Amount:**	Required Revisions $922.50
	Component Description: **Amount:**	Professional Engineering Services Rendered August, 2019 $1,031.01
	Component Description: **Amount:**	Engineering services rendered $500.00
	Component Description: **Amount:**	FCC Repack $225.00
Project management of the transition	**Component Description:** **Amount:**	Project management $2,121.60

Component Description:	Project management
Amount:	$5,535.30
Component Description:	Project Management
Amount:	$6,158.70
Component Description:	Project management
Amount:	$4,156.85
Component Description:	Project Management
Amount:	$8,639.00
Component Description:	FOR SERVICES RENDERED THROUGH: 10/1 /18-10/31/18
Amount:	$75.00
Component Description:	Project Management
Amount:	$4,376.80
Component Description:	Project Management
Amount:	$3,000.80
Component Description:	Project Management
Amount:	$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:	FCC Repack
Amount:	$75.00
Component Description:	Project Management
Amount:	$4,425.95
Component Description:	Preparation of STA and ERP/tpo Calculations
Amount:	$75.00
Component Description:	Project Management
Amount:	$2,107.70

Component Description:	Project Management
Amount:	$2,275.40
Component Description:	Project Management
Amount:	$64.80
Component Description:	FCC Repack
Amount:	$75.00
Component Description:	FCC Repack
Amount:	$75.00
Component Description:	Project Management
Amount:	$6,063.70
Component Description:	Project Management
Amount:	$240.00
Component Description:	Project Management
Amount:	$3,903.45
Component Description:	FOR SERVICES RENDERED
Amount:	$75.00
Component Description:	Project Management
Amount:	$276.55

	Component Description: **Amount:**	Project Management $7,417.65
	Component Description: **Amount:**	FOR SERVICES RENDERED $150.00
	Component Description: **Amount:**	Project Management $2,415.95
	Component Description: **Amount:**	FOR SERVICES RENDERED $75.00
	Component Description: **Amount:**	Project Management $1,671.45
	Component Description: **Amount:**	FCC Repack $75.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	**Component Description:** **Amount:**	WSYM-TV-RF Eng-Construction Permit Application (Aux) $925.00
Prepare and or review reimbursement form	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	**$233,576.48**	**$233,011.48**		**$20,844.14**	
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
Local Zoning	***$25,000.00***	$25,000.00	N/A	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$3,302.25	N/A
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
Sub-total	$233,576.48	$233,011.48	N/A	$20,844.14	N/A
Total for all systems	$2,578,236.39	$3,215,176.15	N/A	$2,434,616.05	N/A

Components

Actual Information Description	File Name	
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.	
Equipment Storage	**Component Description:** **Amount:**	WSYM-TV-610-Equipment Storage $2,445.00

Equipment Delivery and Handling Charges	**Component Description:** **Amount:**	Other $3,067.01
	Component Description: **Amount:**	Other $2,473.87
	Component Description: **Amount:**	DIGIT T/L SET TOOL 4", 6", AND 7 $294.61
	Component Description: **Amount:**	Other $4,860.00
Disposal Costs (for equipment and other waste, net of any salvage value)	**Component Description:** **Amount:**	DEMOED ALL OLD TRANSMITTER EQUIPMENT ON INSIDE OF BUILDING AND ON EXTERIOR. $1,009.00
Non-zoning permits	**Component Description:** **Amount:**	WSYM-TV-610-Non-Zoning Permits : $345.24 $345.24
	Component Description: **Amount:**	Permitting Analysis Review $500.00
Local Zoning	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	

FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	**Component Description:** DTV Notification Service **Amount:** $3,302.25
In-Building Deconstruction	Information not provided.
Michigan Sales Tax	Information not provided.
Employee Time	Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$2,578,236.39	$3,215,176.15	$2,434,616.05

Reimbursement Status

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

Certification

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

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

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Sravan V Reddy , Reddy .** *Senior Director, General Accounting* 03/29/2021

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 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. 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.
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 above-named applicant for the Authorization(s) specified above.	**Sravan V Reddy , Reddy .** *Senior Director, General Accounting* 03/29/2021

Attachments