



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **74094** | Service: **DTV** | Call **WSYM-TV** | Channel: **28 (UHF)** |
ID:
File **0000027264**
Number:
FRN: **0002710192** | Date **07/20**
Submitted: **/2020**

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 <i>Vice President Engineering</i> <i>SCRIPPS BROADCASTING HOLDINGS LLC</i> | 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 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

| 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 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 |

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? | No |
| | 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 | 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 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

Information not provided.

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 **New Transmission Line**
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 **Other Transmission Line Expenses Not Listed**
Transmission Line

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

Interim **New Transmission Line**
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 **Other Transmission Line Expenses Not Listed**
Transmission Line 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 |
|---------------------------|--|
| 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 |
| Michigan Sales Tax | Michigan Sales Tax on Tower Expenses |

**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 | No |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |

| | | |
|---|--|-----|
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| Attorney and Other Outside Consulting Services | Prepare and file Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | 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 |
|--------------------|---|
| Michigan Sales Tax | Michigan Sales Tax on Professional Services |
| 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. |

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 | <i>\$4,685.41</i> | \$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. | <i>\$18,800.00</i> | \$18,800.00 | see Estimated Cost Justification WSYM-TV-110-1st Primary Transmitter - Other Electrical Service v0 | \$18,800.00 | 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 |
| Transformer 3 phase /480v - 150 KVA | \$25,550.00 | \$24,300.00 | N/A | \$2,000.00 | N/A |
| Auxiliary Transmitter UAXT2 | \$127,892.00 | \$122,487.00 | | \$0.00 | |
| Michigan Sales Tax | \$6,237.00 | \$6,237.00 | N/A | N/A | 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 | N/A | N/A |
| 3 kW mask filter | \$4,155.00 | \$3,950.00 | N/A | N/A | N/A |
| UHF and VHF - minor banding issues | \$105,200.00 | \$100,000.00 | N/A | N/A | N/A |
| Sub-total | \$709,627.41 | \$652,486.76 | N/A | \$471,399.71 | N/A |

| | | | | | |
|------------------------------|----------------|----------------|-----|----------------|-----|
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | N/A | \$1,386,055.46 | N/A |
|------------------------------|----------------|----------------|-----|----------------|-----|

Components

| Actual Information | |
|---|--|
| Description | File Name |
| Mask Filter | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Freight</div> <div>\$4,685.40</div> </div> |
| Other Electrical Service: Necessary conduit, wiring and fuse disconnects as quoted by electrical contractor. | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Second Draw</div> <div>\$18,800.00</div> </div> |
| Switchgear - industrial 800 amp | Information not provided. |

| | | |
|---|---|---|
| UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW | Component Description: Amount: | Transmitter \$107,127.48 |
| | Component Description: Amount: | Transmitter \$45,358.45 |
| | Component Description: Amount: | Transmitter \$131,793.73 |
| | Component Description: Amount: | WSYM-TV-110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 8.2-13 kW \$3,000.00 |
| | Component Description: Amount: | Transmitter \$17,133.30 |
| | Component Description: Amount: | WSYM Repack Transmitter Package \$141,501.35 |
| Transformer 3 phase/480v - 150 KVA | Component Description: Amount: | First Draw \$2,000.00 |
| Michigan Sales Tax | Information not provided. | |
| Other Electrical Service: Necessary conduit, wiring as quoted by electrical contractor for relocation inside the building. | Information not provided. | |
| 3 kW mask filter | Information not provided. | |

| | |
|------------------------------------|---------------------------|
| UHF and VHF - minor banding issues | 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 | \$196,230.00 | \$186,400.00 | | \$0.00 | |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | N/A | N/A |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | \$189,500.00 | \$180,000.00 | N/A | N/A | N/A |
| Primary Antenna TFU-24GTH-R BP290 | \$290,288.00 | \$252,449.00 | | \$0.00 | |
| Michigan Sales Tax | <i>\$24,258.00</i> | \$24,258.00 | N/A | N/A | 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 | \$0.00 | N/A |

| | | | | | |
|---|----------------|----------------|---|----------------|-----|
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | \$0.00 | 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 | \$0.00 | N/A |
| Sub-total | \$486,518.00 | \$438,849.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | N/A | \$1,386,055.46 | N/A |

Components

| Actual Information Description | File Name |
|--|---|
| Sweep test of existing antenna | Information not provided. |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | Information not provided. |
| Michigan Sales Tax | Information not provided. |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | <div> Component Description: WSYM-TV-210-Primary Antenna - Elbow Complex Amount: \$4,634.10 </div> <div> Component Description: WSYM-TV-210-Primary Antenna - Elbow Complex Amount: \$4,634.10 </div> |

| | |
|---|---|
| Sweep test of existing antenna | <div data-bbox="734 174 1445 331"> <div>Component Description:</div> <div>WSYM-TV-210- Primary Antenna - Sweep Test</div> <div>Amount:</div> <div>\$2,880.00</div> </div> <div data-bbox="734 434 1445 591"> <div>Component Description:</div> <div>WSYM-TV-210- Primary Antenna - Sweep Test</div> <div>Amount:</div> <div>\$2,880.00</div> </div> |
| UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized | <div data-bbox="734 719 1445 842"> <div>Component Description:</div> <div>UHF - HIGH POWER</div> <div>Amount:</div> <div>\$95,171.85</div> </div> <div data-bbox="734 945 1445 1068"> <div>Component Description:</div> <div>UHF - HIGH POWER</div> <div>Amount:</div> <div>\$95,171.85</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 |
|---|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Interim Transmission Line | \$123,880.00 | \$117,800.00 | | \$0.00 | |
| Rigid Transmission Line - copper, 4 1 /16" broadband | \$123,880.00 | \$117,800.00 | N/A | N/A | N/A |
| Primary Transmission Line | \$220,588.00 | \$210,588.00 | | \$0.00 | |
| Michigan Sales Tax | <i>\$18,588.00</i> | \$18,588.00 | N/A | N/A | N/A |
| Rigid Transmission Line - copper, 6 1/8" | \$202,000.00 | \$192,000.00 | N/A | \$0.00 | N/A |
| Sub-total | \$344,468.00 | \$328,388.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | N/A | \$1,386,055.46 | N/A |

Components

| Actual Information | |
|--|---------------------------|
| Description | File Name |
| Rigid Transmission Line - copper, 4 1/16" broadband | Information not provided. |
| Michigan Sales Tax | Information not provided. |

| | | |
|---|-------------------------------|---|
| Rigid Transmission Line - copper, 6 1/8" | | |
| | Component Description: | WSYM-TV-310- Primary Transmission Line - 6 1/8" Rigid Copper |
| | Amount: | \$61,023.37 |
| | | |
| | | |
| | 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 | \$692,764.50 | \$1,122,216.65 | | \$875,311.65 |
| 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 | \$37,170.00 | \$37,170.00 | N/A | N/A |
| Tall Tower (greater than 500') | \$210,500.00 | \$200,000.00 | N/A | N/A |
| PE Review of Rigging Plan | \$7,500.00 | \$7,500.00 | N/A | N/A |
| 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 |
| Sub-total | \$692,764.50 | \$1,122,216.65 | N/A | \$875,311.65 |
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | N/A | \$1,386,055.46 |

Components

| Actual Information Description | File Name |
|--------------------------------|-----------|
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|---|--|
| Tower Orientation Study | Component Description: Engineering Services Amount: \$3,994.50 |
| Michigan Sales Tax | Information not provided. |
| Tall Tower (greater than 500') | Information not provided. |
| PE Review of Rigging Plan | Information not provided. |
| Major tower reinforcement /modifications | Component Description: Tower Services Rendered Amount: \$861,552.15 |
| Structural engineering tower load study for well documented tower | Component Description: WSYM-TV-410-Existing Primary Tower - Tower Load Study, Documented Tower Amount: \$9,765.00 |

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 | \$170,439.00 | \$174,314.00 | | \$35,951.70 | |
| Site Survey | <i>\$16,900.00</i> | \$16,900.00 | N/A | N/A | N/A |
| Michigan Sales Tax | <i>\$6,189.00</i> | \$6,189.00 | N/A | N/A | N/A |
| RF Exposure Measurements | \$21,050.00 | \$20,000.00 | 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 |
| 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 |

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|--|-------------|-------------|---|-------------|-----|
| 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 | 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 |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | \$225.00 | 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 | \$31,426.70 | N/A |

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|--|----------------|----------------|--|----------------|-----|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$4,300.00 | Please see Estimated Cost Justification WSYM-TV-530-RF Eng - Construction Permit Application (Main) v0 | \$4,300.00 | N/A |
| Sub-total | \$170,439.00 | \$174,314.00 | N/A | \$35,951.70 | N/A |
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | N/A | \$1,386,055.46 | N/A |

Components

| Actual Information | |
|--|---------------------------|
| Description | File Name |
| Site Survey | Information not provided. |
| Michigan Sales Tax | Information not provided. |
| RF Exposure Measurements | Information not provided. |
| 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 | Information not provided. | |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. | |
| Perform engineering study for new channel assignment and antenna development | Component Description: Amount: | FCC Repack \$225.00 |
| Prepare and or review reimbursement form | Information not provided. | |
| Project management of the transition | Component Description: Amount: | Project Management \$7,417.65 |
| | Component Description: Amount: | FCC Repack \$75.00 |
| | Component Description: Amount: | Project Management \$2,415.95 |
| | Component Description: Amount: | Project Management \$1,671.45 |
| | Component Description: Amount: | Project Management \$3,000.80 |
| | Component Description: Amount: | Project Management \$3,555.80 |

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| Component Description: | Project Management |
| Amount: | \$2,771.40 |

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| Component Description: | 387 Update, 2019 4th Quarter |
| Amount: | \$75.00 |

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| Component Description: | Project Management |
| Amount: | \$64.95 |

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| Component Description: | 387 Update 5 Days After Construction Complete |
| Amount: | \$150.00 |

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| Component Description: | Project Management |
| Amount: | \$567.05 |

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| Component Description: | FCC Repack |
| Amount: | \$75.00 |

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| Component Description: | Project Management |
| Amount: | \$64.80 |

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| Component Description: | FCC Repack |
| Amount: | \$75.00 |

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| Component Description: | FCC Repack |
| Amount: | \$75.00 |

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| Component Description: | Project Management |
| Amount: | \$2,275.40 |

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| Component Description: | Project Management |
| Amount: | \$508.75 |

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| Component Description: | Project Management |
| Amount: | \$276.55 |

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| Component Description: | FOR SERVICES RENDERED |
| Amount: | \$150.00 |

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| Component Description: | Preparation of STA and ERP/tpo Calculations |
| Amount: | \$75.00 |

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|-------------------------------|--------------------|
| Component Description: | Project Management |
| Amount: | \$2,107.70 |

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|-------------------------------|--------------------|
| Component Description: | Project Management |
| Amount: | \$3,903.45 |

| | |
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| Component Description: | FOR SERVICES RENDERED |
| Amount: | \$75.00 |

| | | |
|--|---|---|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | Permitting Submittal Package \$4,300.00 |
|--|---|---|

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 | \$239,288.48 | \$238,723.48 | | \$3,392.40 | |
| In-Building Deconstruction | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| Michigan Sales Tax | <i>\$5,712.00</i> | \$5,712.00 | N/A | N/A | N/A |
| Employee Time | <i>\$79,749.32</i> | \$79,749.32 | N/A | N/A | N/A |
| MVPD Notification of Channel Change | <i>\$2,547.16</i> | \$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 | <i>\$5,000.00</i> | \$5,000.00 | N/A | \$0.00 | N/A |
| Equipment Storage | <i>\$20,000.00</i> | \$20,000.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | <i>\$14,200.00</i> | \$14,200.00 | 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 | N/A | 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 |
| 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 |
| Sub-total | \$239,288.48 | \$238,723.48 | N/A | \$3,392.40 | N/A |
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | N/A | \$1,386,055.46 | N/A |

Components

| 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 | <div> Component Description: MVPD Notification Services </div> <div> Amount: \$2,547.16 </div> |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Storage | Information not provided. |

| | |
|--|--|
| Equipment Delivery and Handling Charges | Information not provided. |
| FCC Filing Fees - Form 2100 license to cover application | Information not provided. |
| DTV Medical Facility Notification | Information not provided. |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |
| Non-zoning permits | <div> <div> Component Description: Amount: </div> <div> WSYM-TV-610-Non-Zoning Permits : \$345.24 \$345.24 </div> </div> <div> <div> Component Description: Amount: </div> <div> Permitting Analysis Review \$500.00 </div> </div> |
| Local Zoning | Information not provided. |
| FCC Filing Fees - Special Temporary Authorization request | Information not provided. |

**Cost
Information**

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$2,643,105.39 | \$2,954,977.89 | \$1,386,055.46 |

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>07/20/2020</p> |

| Certification | Section | Question | Response |
|---------------|--|--|----------|
| | Submission of Actual Cost Documentation Statements | <p>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).</p> | |
| | | <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.
8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

| | | |
|--|--|--|
| | <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>07/20/2020</p> |

Attachments