

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 71680 Service: DTV Call WSWP-TV Channel:

ID: Sign: **8 (High VHF)** File **0000027974** 

Number:

FRN: **0002017572** Date **07/11** 

Submitted: /2017

# Applicant Information

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

| Applicant  | Address   | Phone                       | Email               | Applicant<br>Type    |
|--|---|-----------------------------|---------------------|----------------------|
| WEST VIRGINIA EDUCATIONAL BROADCASTING AUTHORITY Doing Business As: WEST VIRGINIA EDUCATIONAL BROADCASTING AUTHORITY | SCOTT FINN<br>600 CAPITOL<br>STREET<br>CHARLESTON,<br>WV 25301<br>United States | +1<br>(304)<br>556-<br>4903 | sfinn@wvpublic. org | Government<br>Entity |

# 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                        |
|---|--|-----------------------|------------------------------|
| Robert Gehman Consulting Engineer Kessler and Gehman Associates, Inc. | Robert Gehman<br>507 NW 60<br>Street<br>Suite D<br>Gainesville, FL<br>32607<br>United States | +1 (352) 332-<br>3157 | bob@kesslerandgehman.<br>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   | Replace transmitter and antenna using existing line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. |

# **Transmitters**

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

# Primary Transmitter

# **Existing Transmitter Information**

| Section                          | Question   | Response          |
|----------------------------------|--|-------------------|
| Existing Transmitter Description | Type of change   | Purchase<br>New   |
|                                  | Use  | Primary<br>(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  | PTCD10P1-         |
|                                  | Year   | 2007              |
|                                  | Туре   | Solid State       |
|                                  | Solid State Cooling  | Air Cooled        |
|                                  | Solid State Power Capacity                                 | 4 kW              |

# Primary Transmitter

## **New Transmitter Costs**

| Section         | Question                                  | Response   |
|-----------------|---|--|
| New Transmitter | Use                                       | Primary<br>(Main)  |
|                 | Change Type                               | Purchase<br>New  |
|                 | Is this a request for upgraded equipment? | No   |
|                 | Manufacturer                              |  |
|                 | Model                                     | TBD  |
|                 | Transmitter Type                          | Solid State  |
|                 | Solid State Cooling                       | Air Cooled   |
|                 | Solid State Power capacity                | 4 kW   |
|                 | Justification for New Transmitter         | The manufacturer of the existing transmitter advises that the transmitter cannot be retuned to the assigned channel. See attachment. |

# 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              | Yes      |
|                    |                                       |          |

|   | Size   | 3 inches   |
|---|--|------------|
|   | Length   | 100.0 feet |
|   | Other Electrical Service   | No         |
|   | Description  | N/A        |
| 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        |
|   |  |            |

# Primary Transmitter

## **Other Transmitter Cost Not Listed**

| Name                          | Description  |
|-------------------------------|--|
| Standby Exciter and Switch    | Standby Exciter with Automatic Change Over Switch                    |
| Additional Interior RF System | Interior RF System Existing Transmitter to Interim Transmission line |

#### **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<br>New    |
|                              | Antenna Use  | Primary<br>(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   | Top Mount          |
|                              | Antenna position in stack  | Not in Stack       |
|                              | Polarization   | Horizontal         |
|                              | Туре   | Slotted<br>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)                                  | 24.0 kW            |

| Manufacturer |                      |
|--------------|----------------------|
| Model        | THV-6A10-<br>R 3C140 |
| Year         | 2007                 |

# Primary Antenna

## **New Antenna Costs**

| Section                | Question   | Response           |
|------------------------|--|--------------------|
| New Antenna            | Use  | Primary (Main)     |
| Description            | 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            | Class  | Full Power         |
| Manufacturer and Types | Mounting   | Top Mount          |
|                        | Antenna position in stack  | Not in Stack       |
|                        | Polarization   | Horizontal         |
|                        | Туре   | Slotted<br>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)                                      | 24.0 kW            |
|                        | Manufacturer   |                    |
|                        | Model  | TBD                |
|                        | Year   | 2018               |

| Justification for New Antenna | The existing  |
|-------------------------------|---------------|
|                               | primary       |
|                               | antenna is a  |
|                               | single        |
|                               | channel       |
|                               | slotted       |
|                               | coaxial which |
|                               | cannot        |
|                               | accommodate   |
|                               | the assigned  |
|                               | channel.      |
|                               |               |

# Primary Antenna

#### **Other Antenna Costs**

| Section                        | Question  | Response            |
|--------------------------------|---|---------------------|
| Combiner for Shared<br>Antenna | Do you need a Combiner for a Shared Antenna?  | No                  |
|                                | Туре  |                     |
|                                | Number of channels supported  | N/A                 |
|                                | Frequencies of channels supported   | N/A                 |
|                                | Frequency   | N/A                 |
|                                | Do you need a combiner output splitter /switcher for dual feed lines?                                       | N/A                 |
| Elbow Complex                  | Do you require the separate purchase of the Elbow Complex?  | Yes                 |
|                                | Broadband or Single Channel?  | Single<br>Channel   |
|                                | Feed Line Size  | 3 1/8 inches inches |
| Side Mount Brackets            | Do you require the separate purchase of side mount brackets for a high power antenna?                       | No                  |
| Pattern Scatter Analysis       | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No                  |
| Sweep Test                     | Do you require the sweep testing of transmission line and antenna?  | Yes                 |

Other Antenna Cost Not Listed

Primary
Antenna Other Antenna Cost
Information not provided.

#### Interim Antenna

## **New Antenna Costs**

| Section                 | Question   | Response           |
|-------------------------|--|--------------------|
| New Antenna Description | Use  | Interim            |
|                         | Description of Use   | N/A                |
|                         | Change Type  | Purchase<br>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   | Slotted<br>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)                                      | 24.0 kW            |
|                         | Manufacturer   |                    |
|                         | Model  | TBD                |
|                         | Year   | 2018               |
|                         |  | <u> </u>           |

| Justification for New Antenna | An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the |
|-------------------------------|---|
|                               | primary   |
|                               | antenna   |
|                               | replacement   |
|                               | and for the   |
|                               | duration of   |
|                               | the   |
|                               | assigned  |
|                               | phase.  |
|                               | Station will  |
|                               | attempt to  |
|                               | rent if   |
|                               | renting is  |
|                               | available at  |
|                               | time of acquisition.  |
|                               | acquisition.  |

# 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?                                 | Yes      |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes      |
| Sweep Test               | Do you require the sweep testing of transmission line and antenna?  | Yes      |

## Interim Antenna

**Other Antenna Cost Not Listed** 

| Transmission Seffien               | Question  | Response |
|------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | Yes      |

# Primary Transmissio

# **Existing Transmission Line**

| Section Section                        | Question   | Response            |
|--|--|---------------------|
| Existing Transmission Line Description | Type of change   | Utilize<br>Existing |
|  | Use  | Primary<br>(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                  | Manufacturer   | Dielectric          |
| Line Manufacturer and Type             | Туре   | Rigid               |
|  | Diameter   | 3 1/8 inches        |
|  | Other Diameter   | N/A                 |
|  | Segment Length   | 20 inches           |
|  | Other Segment Length   | N/A                 |
|  | Number of parallel runs  | 1                   |
|  | Length   | 450 feet<br>per run |

#### **Primary**

# Other Transmission Line Expenses Not Listed

| Transmission | Name        | Description   |
|--------------|-------------|---|
|              | Sweep Tests | Sweep tests to ensure performance on assigned channel |

#### Interim Transmis

## **New Transmission Line**

| ssion Line<br>Section | Question                | Response        |
|-----------------------|-------------------------|-----------------|
| New Transmission Line | Use                     | Interim         |
| Costs                 | Description of Use      | N/A             |
|                       | Change Type             | Purchase<br>New |
|                       | Туре                    | Flexible Air    |
|                       | Diameter                | 1 5/8 inches    |
|                       | Segment Length          | N/A             |
|                       | Other Segment Length    |                 |
|                       | Number of parallel runs | 1               |
|                       | Length                  | 350 feet per    |

Justification for New Transmission Line An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at

time of acquisition.

# Other Transmission Line Expenses Not Listed Interim Transmission Line Expenses Not Listed Interim Interior Not provided.

# Tower Equipment And Rigging Costs

| Section                                     | Question  | Response |
|---|---|----------|
| Tower Equipment or<br>Rigging Costs Changes | Do you have tower equipment or rigging costs changes? | Yes      |

# Primary Tower

# **Existing Tower**

| Section   | Response  |                        |
|---|---|------------------------|
| Existing Tower Description                                | Type of change  | Modify<br>Existing     |
|   | Tower Use   | Primary<br>(Main)      |
|   | Description of Use                                      | N/A                    |
|   | Ownership   | Leased                 |
|   | Is this tower consider Complex?                         | Terrain<br>Constrained |
|   | Is this tower currently shared with any other stations? | Yes                    |
|   | One or more FM, AM or TV radio broadcaster(s)           | Yes                    |
|   | Others Types of Users                                   | Yes                    |
|   | Is tower documented for structural analysis?            | No                     |
|   | Is tower compliant with Rev G?                          | No                     |
| Existing Tower Structure Registration                     | Do you have a tower registration number?                | Yes                    |
|   | ASR Number  | 1035131                |
| Coordinates (NAD83 (<br>North American Datum of<br>1983)) | Latitude (NAD83)  | 37° 53' 46.4"<br>N-    |
|   | Longitude (NAD83)                                       | 080° 59'<br>20.3" W-   |
|   | Overall Structure Height                                | 468.83 feet            |
|   | Support Structure Height                                | 377.29 feet            |

| Ground Elevation Above Mean Sea Level (AMSL) | 2958.95 feet   |
|--|--|
| Structure Type                               | TOWER -<br>Free<br>Standing or<br>Guyed<br>Structure |
| Tower Owner                                  | West Virginia Educational Broadcasting Authority     |
| Date Constructed                             | 02/08/2010   |

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

| Facility ID | Call Sign | Service |
|-------------|-----------|---------|
| 71689       | WVBY      | FM      |

## Other Types of Users

| Users          |
|----------------|
| WSWP microwave |
| WVBY microwave |
|                |

#### Primary Tower

## **Tower Modification Costs**

| Section           | Question   | Response  |
|-------------------|--|---|
| Engineering Study | Please what type of engineering study is required, if any: | Study needed<br>for<br>undocumented<br>/poorly<br>documented<br>tower |

| needed |
|--------|
|--------|

# Primary Tower

# **Tower Rigging Costs**

| Section                         | Question                          | Response            |
|---------------------------------|-----------------------------------|---------------------|
| Tower Rigging Costs             | Complex Tower                     | Terrain constrained |
| Helicopter Services<br>Required | Are helicopter services required? | No                  |

# Primary Tower

# Other Tower Expenses Not Listed

# Outside Professional

| Section  | Question   | Response  |
|--|--|---|
| Services Costs<br>Outside Project<br>Management Services | Do you require outside project management services?                          | Yes   |
|  | Number of Hours  | 204   |
|  | Explanation  | It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects. |
| Outside RF consulting<br>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 | Yes |
| RF Field Engineering<br>Services               | Comprehensive coverage verification via field study  | Yes |
|  | RF exposure measurements   | No  |
|  | Additional Field Engineering Service   | Yes |
|  |  |     |

| Number of Days | 18  |
|----------------|---|
| Justification  | It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services. |

Outside
Professional Services Expenses Not Listed
Professional Services ©qstsided.

# 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<br>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   | No       |
|                                 | Non-zoning permits   | No       |
|                                 | BLM or NFS Coordination  | No       |
|                                 | FCC Construction Permit Minor Change   | No       |
|                                 | FCC License to Cover Application   | No       |
|                                 | FCC Special Temporary Authority Application  | No       |
| Other Miscellaneous<br>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 Not Listed

**Expenses** Information not provided.

#### **Transmitters**

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

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification     | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|--|----------------|------------------------------|
| Primary<br>Transmitter TBD   | \$321,450.00                   | \$310,500.00      |  | \$0.00         |                              |
| High VHF - Air<br>Cooled Solid<br>State<br>Transmitter 1.1 .<br>4.4 kW | \$152,500.00                   | \$145,000.00      | N/A                                    | N/A            | N/A                          |
| Switchgear -<br>industrial 800<br>amp                                  | \$38,200.00                    | \$36,300.00       | N/A                                    | N/A            | N/A                          |
| Transformer 3<br>phase/480v -<br>150 KVA                               | \$25,550.00                    | \$24,300.00       | N/A                                    | N/A            | N/A                          |
| 3" Rigid Conduit<br>and Wiring<br>(Cost per foot)                      | \$5,200.00                     | \$4,900.00        | N/A                                    | N/A            | N/A                          |
| Standby Exciter and Switch   | \$25,000.00                    | \$25,000.00       | See "WSWP Transition Plan" Attachment. | N/A            | N/A                          |
| Additional<br>Interior RF<br>System                                    | \$75,000.00                    | \$75,000.00       | See "WSWP Transition Plan" Attachment. | N/A            | N/A                          |
| Sub-total  | \$321,450.00                   | \$310,500.00      | N/A                                    | \$0.00         | N/A                          |
| Total for all systems  | \$2,033,072.00                 | \$1,967,300.00    | N/A                                    | \$0.00         | N/A                          |

## Components

#### **Antennas**

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

|  |                             |                   | Estimated   |                |                              |
|--|-----------------------------|-------------------|---|----------------|------------------------------|
| Description  | Predetermined Cost Estimate | Estimated<br>Cost | Cost Justification  | Actual<br>Cost | Actual Cost<br>Justification |
| Interim Antenna<br>TBD   | \$215,140.00                | \$213,400.00      |   | \$0.00         |                              |
| High VHF - High<br>Power Side<br>Mount One<br>Station<br>horizontally<br>polarized                                       | \$180,000.00                | \$180,000.00      | Estimated cost is based on the Cost Catalog estimate for this item. | N/A            | N/A                          |
| Sweep test of existing antenna   | \$6,730.00                  | \$6,400.00        | N/A   | N/A            | N/A                          |
| Pattern scatter<br>analysis for side<br>mount high/med<br>power antennas<br>(if not included<br>in antenna base<br>cost) | \$5,260.00                  | \$5,000.00        | N/A   | N/A            | N/A                          |
| Side mount<br>brackets for<br>high power<br>antennas (if not<br>included in<br>antenna base<br>cost)                     | \$23,150.00                 | \$22,000.00       | N/A   | N/A            | N/A                          |
| Primary<br>Antenna TBD   | \$339,330.00                | \$338,800.00      |   | \$0.00         |                              |
| Sweep test of existing antenna   | \$6,730.00                  | \$6,400.00        | N/A   | N/A            | N/A                          |

| High VHF - High<br>Power Top<br>Mount One<br>Station<br>horizontally<br>polarized               | \$325,000.00   | \$325,000.00   | Estimated cost is based on the Cost Catalog estimate for this item. | N/A    | N/A |
|---|----------------|----------------|---|--------|-----|
| Elbow complex,<br>single channel,<br>at antenna<br>input, per 3 1/8.<br>feedline (if<br>needed) | \$7,600.00     | \$7,400.00     | N/A   | N/A    | N/A |
| Sub-total   | \$554,470.00   | \$552,200.00   | N/A   | \$0.00 | N/A |
| Total for all systems   | \$2,033,072.00 | \$1,967,300.00 | N/A   | \$0.00 | N/A |

# Components

#### **Transmission Line**

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

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated Cost Justification  | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|---|----------------|------------------------------|
| Interim<br>Transmission<br>Line                              | \$11,550.00                    | \$10,850.00       |   | \$0.00         |                              |
| Flexible Air<br>Transmission<br>Line - dielectric,<br>1 5/8" | \$11,550.00                    | \$10,850.00       | N/A   | N/A            | N/A                          |
| Primary<br>Transmission<br>Line                              | \$6,400.00                     | \$6,400.00        |   | \$0.00         |                              |
| Sweep Tests  | \$6,400.00                     | \$6,400.00        | A sweep of the transmission line test is needed to verify performance on the assigned channel. Estimated cost for the test is based on the Cost Catalog estimate for this item. | N/A            | N/A                          |
| Sub-total  | \$17,950.00                    | \$17,250.00       | N/A   | \$0.00         | N/A                          |
| Total for all systems  | \$2,033,072.00                 | \$1,967,300.00    | N/A   | \$0.00         | N/A                          |

## Components

# **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<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Primary Tower<br>TOWER   | \$868,300.00                   | \$825,000.00      |                                    | \$0.00         |                              |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | \$26,300.00                    | \$25,000.00       | N/A                                | N/A            | N/A                          |
| Complex Tower<br>(includes, for<br>example, those<br>with<br>candelabras and<br>/or stacked<br>antennas)                   | \$421,000.00                   | \$400,000.00      | N/A                                | N/A            | N/A                          |
| Major tower reinforcement /modifications   | \$421,000.00                   | \$400,000.00      | N/A                                | N/A            | N/A                          |
| Sub-total  | \$868,300.00                   | \$825,000.00      | N/A                                | \$0.00         | N/A                          |
| Total for all systems  | \$2,033,072.00                 | \$1,967,300.00    | N/A                                | \$0.00         | N/A                          |

#### Components

## **Outside Professional Services**

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

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Outside<br>Professional<br>Services  | \$187,352.00                   | \$179,350.00      |                                    | \$0.00         |                              |
| Prepare and or review reimbursement form   | \$2,630.00                     | \$2,500.00        | N/A                                | N/A            | N/A                          |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application   | \$3,155.00                     | \$3,000.00        | N/A                                | N/A            | N/A                          |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application      | \$1,580.00                     | \$1,500.00        | N/A                                | N/A            | N/A                          |
| Prepare request<br>for Special<br>Temporary<br>Authorization                           | \$2,050.00                     | \$1,500.00        | N/A                                | N/A            | N/A                          |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00                     | \$5,000.00        | N/A                                | N/A            | N/A                          |

| Attorney Fees - Prepare and File request for Special Temporary Authorization   | \$3,680.00  | \$3,500.00  | N/A   | N/A | N/A |
|--|-------------|-------------|---|-----|-----|
| ASR<br>modification<br>(prepare FCC<br>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 |
| Comprehensive coverage verification via field study, if needed   | \$84,200.00 | \$80,000.00 | N/A   | N/A | N/A |
| Additional Field<br>Engineering<br>Service, 18 Days  | \$36,000.00 | \$36,000.00 | See attached quote from Kessler and Gehman Associates, Inc. | N/A | N/A |
| Project<br>management of<br>the transition   | \$32,232.00 | \$30,600.00 | N/A   | N/A | N/A |
| Address<br>transition timing<br>and coordination<br>issues w/ other<br>stations and  | \$2,630.00  | \$2,500.00  | N/A   | N/A | N/A |

| Perform engineering study for new channel assignment and antenna development        | \$7,360.00     | \$7,000.00     | N/A | 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 |
| Sub-total   | \$187,352.00   | \$179,350.00   | N/A | \$0.00 | N/A |
| Total for all systems   | \$2,033,072.00 | \$1,967,300.00 | N/A | \$0.00 | N/A |

# Components

# Other Expenses

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

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification   | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|--|----------------|------------------------------|
| Other Expenses  | \$83,550.00                    | \$83,000.00       |  | \$0.00         |                              |
| DTV Medical<br>Facility<br>Notification                 | \$11,550.00                    | \$11,000.00       | N/A  | N/A            | N/A                          |
| Equipment Delivery and Handling Charges                 | \$50,000.00                    | \$50,000.00       | Based on review of various vendor proposals, equipment delivery and handling charges are estimated to be \$10 K per major item, and this project is expected to include delivery of 5 major items  - 2 antennas, 1 transmission line, and 1 transmitter. | N/A            | N/A                          |
| Equipment<br>Storage                                    | \$10,000.00                    | \$10,000.00       | Estimated cost is based on industry experience.  | N/A            | N/A                          |
| Develop and air announcement of upcoming channel change | \$0.00                         | \$0.00            | N/A  | N/A            | N/A                          |

| Disposal Costs (for equipment and other waste, net of any salvage value) | \$10,000.00    | \$10,000.00    | Estimated Cost is based on industry experience.  | N/A    | N/A |
|--|----------------|----------------|--|--------|-----|
| MVPD<br>Notification of<br>Channel<br>Change                             | \$2,000.00     | \$2,000.00     | Estimated cost is based on the need for one day of outside consulting services to complete the MVPD Notifications. | N/A    | N/A |
| Sub-total  | \$83,550.00    | \$83,000.00    | N/A  | \$0.00 | N/A |
| Total for all systems  | \$2,033,072.00 | \$1,967,300.00 | N/A  | \$0.00 | N/A |

# Components

## **Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|-------------|
| Total for all systems | \$2,033,072.00                 | \$1,967,300.00 | \$0.00      |

| Reimbursem | envestiatus  | Response |
|------------|--|----------|
|            | The facility has ceased operating on its pre-<br>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. Scott Finn
Executive
Director

07/11/2017

#### **Attachments**