



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **13602** | Service: **DTV** | Call **WEDH** | Channel: **45 (UHF)**
 ID: | Sign:
 File **0000028127**
 Number:
 FRN: **0003574662** | Date **03/25**
 Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|-------------------|------------------------|----------------|
| CONNECTICUT PUBLIC BROADCASTING, INC. | Meg Sakellarides 1049 ASYLUM AVENUE HARTFORD, CONNECTICUT PUBLIC TELEVISION CT 06105 United States | +1 (860) 278-5310 | MSAKELLARIDES@CPTV.ORG | Not-for-Profit |

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 |
|--|---------|-------|-------|
| The Preparer is same as the reimbursement contact. | | | |

Broadcaster Information and Transition Plan

| Question | Response |
|----------|----------|
|----------|----------|

| | |
|---|---|
| <p>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.</p> | <p>Yes</p> |
| <p>Briefly describe transition plan</p> | <p>Purchase of a new transmitter, new transmission line, and new antenna. Retuning of the existing transmitter to the new channel is cost-prohibitive. Interim antenna and transmission line are planned during transition to main antenna.</p> |

| Transmitters | Section | Question | Response |
|---------------------|----------------|--|--|
| | | <p>Transmitter Related Expenses</p> | <p>Do you have transmitter related expenses?</p> |

**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 | DCX Paragon MSDC-IOT |
| | Year | 2008 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 36 kW |

**Primary
Transmitter**

New Transmitter Costs

| Section | Question | Response |
|-------------------------------|---|---|
| <p>New Transmitter</p> | Use | Primary (Main) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Manufacturer | |
| | Model | ULXTE-50 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 31.7 kW |
| | Justification for New Transmitter | <p>1) Comark has indicated that retuning the existing transmitter, coupled with the rental of a temporary transmitter, would be higher than the Widelity cost; 2) the temporary rental transmitter would reduce WEDH's public service to its community.</p> |

Primary Transmitter

Other Transmitter Costs

| Section | Question | Response |
|---|---|--|
| <p>Electrical Service</p> | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | No |
| | Transformer (480V) | Yes |
| | Power | 150 kVA |
| | Rigid Conduit and Wiring | Yes |
| | Size | 4 inches |
| | Length | 100.0 feet |
| | Other Electrical Service | Yes |
| | Description | <p>Labor and materials to accomplish either modification of existing electrical service or new electrical service and new wiring for new transmitter and wiring for 480 3-phase.</p> |
| <p>HVAC Service</p> | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| <p>Transmitter Building Addition/Modification or Leasehold Improvement</p> | 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 |
|-------------------------|--------------------|
| Project Expenses | Other services |
| Mask Filter | 8-Pole 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 | Bottom |
| | 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) | 490.0 kW |

| | |
|--------------|-------------------------|
| Manufacturer | |
| Model | TFU- 16DSC-R C170 |
| Year | 2009 |

**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 | Side Mount |
| | Antenna position in stack | Bottom |
| | 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) | 365.0 kW |
| Manufacturer | | |

| | |
|-------------------------------|---|
| Model | TFU-16DSC-R C170 |
| Year | 2019 |
| Justification for New Antenna | Existing antenna is single channel and is channel-specific. Justification for side mount brackets: antenna is top-mounted on candelabra tower but is side mounted in the bottom of the stack and side mounted brackets are required (see attached quote). |

Primary Antenna

Other Antenna Costs

| Section | Question | Response |
|------------------------------------|--|----------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | No |
| | 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 | 7 3/16 inches inches |
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for a high power antenna? | Yes |
| 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 |
|-------------------------|--------------------|
| Reducer | 6-75 x 7-75 |
| Project Expenses | Other services |

**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? | Yes |
| | 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 | 3 |
| | Number of Panels/Bays | 16 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 665.00 MHz |
| | Design power capacity in use | 95.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 1500.0 kW |
| | Manufacturer | |
| | Model | TFU-WB16 |
| | Year | 2020 |

| | |
|-------------------------------|--|
| Justification for New Antenna | Interim antenna is necessary for broadcast operation during tower work for 3 stations. |
|-------------------------------|--|

Interim Antenna

Other Antenna Costs

| Section | Question | Response |
|------------------------------------|---|--------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | Yes |
| | Type | New |
| | Number of channels supported | 3 |
| | Frequencies of channels supported | RF channel |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | No |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | B |
| | Feed Line Size | 6 1/8 inches |
| 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 |

Enter a list of RF channel numbers.

| RF Channel Number |
|--------------------------|
| 31 |
| 20 |
| 45 |

**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 | 7 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 19 1/2 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1480 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 | 7 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1480 feet per run |
| | Justification for New Transmission Line | Current shared transmission line is no longer supported by manufacturer and will not work on new channel. |

**Primary
Transmission
Line**

Other Transmission Line Expenses Not Listed

| Name | Description |
|------------------|----------------|
| Project Expenses | Other services |

**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 | 6 1/8 inches |
| | Segment Length | Broadband |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1450 feet per run |
| | Justification for New Transmission Line | Transmission line for temporary operation of 3 stations during antenna changes. |

**Interim
Transmission
Line**

Other Transmission Line Expenses Not Listed

| Name | Description |
|---|--|
| Interim Internal Transmission Line | Andrews Flexible Air Line, 4in at 80 feet with Reducer & Estimated Freight |

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 | Leased |
| | Is this tower consider Complex? | Candelabra |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | Is tower documented for structural analysis? | Yes |
| | Is tower compliant with Rev G? | Yes |
| Existing Tower Structure Registration | Do you have a tower registration number? | No |
| | ASR Number | |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 41° 42' 13.0" N- |
| | Longitude (NAD83) | 072° 49' 55.0" W- |
| | Overall Structure Height | 1338.89 feet |
| | Support Structure Height | 1291.98 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 709.97 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | |
|------------------|---|
| Tower Owner | COMMUNICATIONS SITE MANAGEMENT, LLC |
| Date Constructed | 09/01/1984 |

**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 |
|-------------|-----------|---------|
| 147 | WTIC-TV | DTV |
| 1910 | WRCH | FM |
| 66465 | WTIC-FM | FM |
| 14050 | WCCT-TV | DTV |
| 1900 | WZMX | FM |

**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: | Minor Reinforcements needed |

**Primary
Tower**

Tower Rigging Costs

| Section | Question | Response |
|-------------------------------------|-----------------------------------|------------|
| Tower Rigging Costs | Complex Tower | Candelabra |
| Helicopter Services Required | Are helicopter services required? | No |

**Primary
Tower**

Other Tower Expenses Not Listed

| Name | Description |
|-------------|--|
| Tower Lease | Additional tower rent expense for interim antenna and transmission line necessary during transition. |

Outside Professional Services Costs

| Section | Question | Response |
|---|--|---|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 695 |
| | Explanation | Project management services by the transmitter manufacturer and tower landlord. |
| 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 | 2 |
| | 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 | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | Yes |
| | 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 Services | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 2 |
| | Justification | Field Engineering required for RF study for a nearby AM directional system. |

Other Professional Services Expenses Not Listed

**Outside
Professional
Services
Costs**

Information not provided.

Other Expenses

| Section | Question | Response |
|-------------------------------------|--|----------|
| AM Pattern Disturbance | Is an Impact Study needed? | Yes |
| | Is Remediation needed? | Yes |
| 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 | No |
| | FCC Special Temporary Authority Application | No |
| Other Miscellaneous Expenses | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)? | Yes |
| | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | Yes |
| | Does this relocation require Equipment Storage? | 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 |
|---------------------------------------|---|
| Insurance | Builder's Risk during construction |
| Site Security | Hire of outside security to secure the site during construction |
| Engineering and Administrative | Internal Project Management |

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-50 | \$926,487.17 | \$907,933.97 | | \$295,777.97 | |
| Mask Filter | <i>\$43,753.12</i> | \$43,753.12 | N/A | \$19,514.58 | N/A |
| Project Expenses | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| Other Electrical Service: Labor and materials to accomplish either modification of existing electrical service or new electrical service and new wiring for new transmitter and wiring for 480 3-phase. | <i>\$86,716.18</i> | \$86,716.18 | N/A | \$0.00 | N/A |
| 4" Rigid Conduit and Wiring (Cost per foot) | \$10,100.00 | \$9,600.00 | N/A | N/A | N/A |
| Transformer 3 phase /480v - 150 KVA | \$25,550.00 | \$7,496.80 | N/A | N/A | N/A |

| | | | | | |
|--|---------------------|----------------|-----|--------------|-----|
| UHF - Liquid Cooled Solid State Transmitter 31.7 kW | \$760,367.87 | \$760,367.87 | N/A | \$276,263.39 | N/A |
| Sub-total | \$926,487.17 | \$907,933.97 | N/A | \$295,777.97 | N/A |
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | N/A | \$630,429.84 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Mask Filter | <p>Component Description: WEDH-110-1st Primary Transmitter - Mask Filter</p> <p>Amount: \$16,214.58</p> <p>Component Description: WEDH-110-1st Primary Transmitter - Mask Filter</p> <p>Amount: \$3,300.00</p> |
| Project Expenses | Information not provided. |
| Other Electrical Service: Labor and materials to accomplish either modification of existing electrical service or new electrical service and new wiring for new transmitter and wiring for 480 3-phase. | Information not provided. |
| 4" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| Transformer 3 phase/480v - 150 KVA | Information not provided. |

UHF - Liquid Cooled Solid
State Transmitter 31.7 kW

Component Description: ULXTE-50
Transmitter
Amount: \$46,700.00

Component Description: ULXTE-50
Amount: \$229,563.39

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-WB16 | \$138,630.00 | \$132,400.00 | | \$0.00 | |
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | \$13,700.00 | \$12,000.00 | N/A | N/A | N/A |
| New combiner, cost per channel (without antenna) | \$84,200.00 | \$80,000.00 | N/A | N/A | N/A |
| UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized | <i>\$34,000.00</i> | \$34,000.00 | In resubmission on 8/22/17, item has been reduced to 1/3 the initially submitted amount for sharing of cost with WTIC and WCCT. | N/A | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | \$0.00 | N/A |
| Primary Antenna TFU-16DSC-R C170 | \$235,520.00 | \$221,390.00 | | \$82,429.65 | |

| | | | | | |
|--|-------------------|-------------|--|------------|-----|
| Project Expenses | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| Reducer | <i>\$2,240.00</i> | \$2,240.00 | See attached quote from Dielectric supporting cost. | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | \$23,150.00 | \$17,752.00 | Antenna is top-mounted on candelabra tower but is side mounted in the bottom of the stack of the candelabra and therefore side-mounted brackets are required (see attached quote from Dielectric). | \$7,988.40 | N/A |
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed) | \$13,900.00 | \$14,998.00 | Dielectric Quote 800211CMZ-3A | \$6,749.10 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | \$2,880.00 | N/A |

| | | | | | |
|--|----------------|----------------|-----|--------------|-----|
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | \$189,500.00 | \$180,000.00 | N/A | \$64,812.15 | N/A |
| Sub-total | \$374,150.00 | \$353,790.00 | N/A | \$82,429.65 | N/A |
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | N/A | \$630,429.84 | N/A |

Components

| Actual Information Description | File Name |
|--|--|
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | Information not provided. |
| New combiner, cost per channel (without antenna) | Information not provided. |
| UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1500 kW input, directional,, horizontally polarized | Information not provided. |
| Sweep test of existing antenna | <p>Component Description: CT-Hartford- WEDH-Work on interim antenna option; memo - Professional Services</p> <p>Amount: \$125.00</p> |
| Project Expenses | Information not provided. |
| Reducer | Information not provided. |

| | |
|---|--|
| <p>Side mount brackets for high power antennas (if not included in antenna base cost)</p> | <p>Component Description: WEDH Primary Antenna Side Mount Brackets</p> <p>Amount: \$7,988.40</p> |
| <p>Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)</p> | <p>Component Description: WEDH Primary Antenna Elbow Complex</p> <p>Amount: \$6,749.10</p> |
| <p>Sweep test of existing antenna</p> | <p>Component Description: WEDH Primary Antenna Sweep Test</p> <p>Amount: \$2,880.00</p> |
| <p>UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized</p> | <p>Component Description: Antenna - UHF Side/Pole Mount, Rigid Transmission Line - Copper, etc.</p> <p>Amount: \$64,812.15</p> |

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 | \$348,092.41 | \$91,692.41 | | \$1,615.00 | |
| Interim Internal Transmission Line | <i>\$11,692.41</i> | \$11,692.41 | Please see attached Dielectric quote 800141CMZ-1 at \$10,672.41 and attached Dielectric invoice 203001 for freight costs at \$1,020. | \$1,615.00 | N/A |
| Rigid Transmission Line - copper, 6 1/8" broadband | \$336,400.00 | \$80,000.00 | In resubmission on 8/22/17, item has been reduced to 1/3 the initially submitted amount for sharing of cost with WTIC and WCCT. | \$0.00 | N/A |
| Primary Transmission Line | \$429,200.00 | \$283,337.20 | | \$127,423.44 | |
| Project Expenses | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |

| | | | | | |
|---|----------------|----------------|----------------------------------|--------------|-----|
| Rigid Transmission Line - copper, 7 3/16" | \$429,200.00 | \$283,337.20 | Dielectric Quote 800211CMZ-3A | \$127,423.44 | N/A |
| Sub-total | \$777,292.41 | \$375,029.61 | N/A | \$129,038.44 | N/A |
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | N/A | \$630,429.84 | N/A |

Components

| Actual Information | |
|--|---|
| Description | File Name |
| Interim Internal Transmission Line | Component Description: Reducer 6-50 X 3-50 W/CONN "QS Amount: \$1,615.00 |
| | Component Description: Flexible Transmission Line Amount: \$10,077.41 |
| Rigid Transmission Line - copper, 6 1/8" broadband | Component Description: WEDH FCC Repack Ch 30 Interim transmission line installation Amount: \$2,398.00 |
| Project Expenses | Information not provided. |
| Rigid Transmission Line - copper, 7 3/16" | Component Description: WEDH Primary Transmission Line Amount: \$127,423.44 |

Cost Information

Tower Equipment and Rigging Costs

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|-----------------------------|-----------------------|--|---------------------|---------------------------|
| Primary Tower TOWER | \$656,600.00 | \$357,000.00 | | \$65,000.00 | |
| Structural engineering tower load study for well documented tower | \$12,600.00 | \$12,000.00 | N/A | \$0.00 | N/A |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00 | \$200,000.00 | N/A | N/A | N/A |
| Minor tower reinforcement /modifications | \$158,000.00 | \$80,000.00 | N/A | N/A | N/A |
| Tower Lease | <i>\$65,000.00</i> | \$65,000.00 | See attached quote and invoice from Communications Site Management LLC - estimated cost reduced from \$167,020.00 to \$65,000.00 | \$65,000.00 | N/A |
| Sub-total | \$656,600.00 | \$357,000.00 | N/A | \$65,000.00 | N/A |
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | N/A | \$630,429.84 | N/A |

Components

| Actual Information | |
|---|---|
| Description | File Name |
| Structural engineering tower load study for well documented tower | <p>Component Description: Tower structural analysis and report.</p> <p>Amount: \$3,840.00</p> |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | Information not provided. |
| Minor tower reinforcement /modifications | Information not provided. |
| Tower Lease | <p>Component Description: Interim Antenna - Tower Rent per Amendment</p> <p>Amount: \$65,000.00</p> |

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 | \$256,030.00 | \$254,268.00 | | \$36,346.75 | |
| Additional Field Engineering Service, 2 Days | <i>\$4,000.00</i> | \$4,000.00 | N/A | \$93.00 | N/A |
| RF Exposure Measurements | \$21,050.00 | \$20,000.00 | 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 |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | \$3,680.00 | \$3,500.00 | N/A | \$46.50 | N/A |
| Attorney Fees - Negotiation of lease and other matters for shared locations | \$4,210.00 | \$4,000.00 | N/A | \$2,139.00 | 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 | \$1,581.00 | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$3,468.00 | Professional Services invoices | \$1,767.00 | N/A |
| Project management of the transition | \$109,810.00 | \$114,675.00 | Please see quotes. | \$28,220.25 | N/A |
| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$2,500.00 | N/A | \$0.00 | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,375.00 | Du Treil Invoices | \$2,500.00 | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | N/A | \$0.00 | 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 for Special Temporary Authorization | \$4,100.00 | \$3,000.00 | N/A | N/A | N/A |
| Sub-total | \$256,030.00 | \$254,268.00 | N/A | \$36,346.75 | N/A |
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | N/A | \$630,429.84 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Additional Field Engineering Service, 2 Days | <p>Component Description: Legal services rendered through November 30, 2018.</p> <p>Amount: \$93.00</p> |
| RF Exposure Measurements | Information not provided. |
| Comprehensive coverage verification via field study, if needed | Information not provided. |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | <p>Component Description: WEDH-550-Attorney - Special Temporary Authorization</p> <p>Amount: \$46.50</p> |

| | |
|---|---|
| <p>Attorney Fees - Negotiation of lease and other matters for shared locations</p> | <p>Component Description: Attorney - Negotiate Lease and Other Matters Amount: \$128.00</p> <p>Component Description: Legal Services Amount: \$2,139.00</p> |
| <p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p> | <p>Information not provided.</p> |
| <p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p> | <p>Component Description: Attorney - Construction Permit Application (Main) Amount: \$372.00</p> <p>Component Description: Legal Services Amount: \$1,209.00</p> <p>Component Description: Prepare and file Construction Permit Application (Form 2100). Amount: \$600.00</p> |

Prepare and or review
reimbursement form

Component Description: Prepare and
Review
Reimbursement
Form
Amount: \$325.50

Component Description: Legal Services
Amount: \$325.50

Component Description: Legal Services
Amount: \$790.50

Component Description: Legal services for
preparing,
reviewing and
submitting FCC
Reimbursement
Form 399
Amount: \$534.00

Component Description: Legal Services
Amount: \$325.50

Component Description: Television
Repacking
Services - WEDH
Amount: \$627.00

Component Description: Legal services for
preparing,
reviewing and
submitting FCC
Reimbursement
Form 399
Amount: \$540.00

Project management of the transition

Component Description: Project Management
Amount: \$6,561.55

Component Description: Project Management
Amount: \$257.70

Component Description: Project Management
Amount: \$1,577.50

Component Description: Project Management
Amount: \$4,531.80

Component Description: Project Management
Amount: \$4,377.95

Component Description: Project Management
Amount: \$4,373.70

Component Description: Project Management
Amount: \$2,675.40

Component Description: Project Management
Amount: \$1,382.45

Component Description: Project Management
Amount: \$2,482.20

Address transition timing
and coordination issues w/
other stations and wireless

Component Description:

Address transition
timing and
coordination

Amount:

\$39.00

Component Description:

Address transition
timing and
coordination.

Amount:

\$172.50

Component Description:

Transition timing
and coordination.

Amount:

\$39.00

| | |
|---|---|
| <p>Perform engineering study for new channel assignment and antenna development</p> | <p>Component Description: Engineering study work for new channel assignment and antenna development</p> <p>Amount: \$2,000.00</p> |
| | <p>Component Description: CT New Haven-Assist w/channel share-WEDH-App/Map</p> <p>Amount: \$875.00</p> |
| | <p>Component Description: Engineering study work for new channel assignment and antenna development</p> <p>Amount: \$125.00</p> |
| | <p>Component Description: Engineering study work for new channel assignment and antenna development</p> <p>Amount: \$500.00</p> |
| | <p>Component Description: CT Hartford-WEDH-Early transition analysis/Phase 4</p> <p>Amount: \$1,625.00</p> |
| <p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p> | <p>Information not provided.</p> |

| | |
|---|---------------------------|
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Prepare request for Special Temporary Authorization | 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 | \$200,656.40 | \$178,666.40 | | \$21,837.03 | |
| Engineering and Administrative | <i>\$20,000.00</i> | \$20,000.00 | N/A | N/A | N/A |
| Site Security | <i>\$10,000.00</i> | \$10,000.00 | N/A | N/A | N/A |
| Insurance | <i>\$18,150.00</i> | \$18,150.00 | Turriss Engineering Proposal #50195000 | \$18,150.00 | N/A |
| MVPD Notification of Channel Change | <i>\$11,000.00</i> | \$11,000.00 | N/A | N/A | N/A |
| Develop and air announcement of upcoming channel change | <i>\$6,000.00</i> | \$6,000.00 | N/A | N/A | N/A |
| Equipment Storage | <i>\$15,000.00</i> | \$15,000.00 | N/A | \$3,687.03 | N/A |
| Equipment Delivery and Handling Charges | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$11,000.00 | N/A | N/A | N/A |

| | | | | | |
|--|--------------------|----------------|---|--------------|-----|
| AM Pattern Disturbance -- Remedy | \$21,050.00 | \$0.00 | Disallowed by FCC as it is duplicated by a request from WTIC. | N/A | N/A |
| AM Pattern Disturbance -- Impact study | \$7,890.00 | \$7,500.00 | N/A | N/A | N/A |
| Non-zoning permits | <i>\$10,000.00</i> | \$10,000.00 | N/A | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$30,016.40</i> | \$30,016.40 | See attached quotes from D'Amato and Tri-S for justification. | N/A | N/A |
| Local Zoning | <i>\$15,000.00</i> | \$15,000.00 | N/A | \$0.00 | N/A |
| Sub-total | \$200,656.40 | \$178,666.40 | N/A | \$21,837.03 | N/A |
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | N/A | \$630,429.84 | N/A |

Components

| Actual Information | |
|-------------------------------------|---|
| Description | File Name |
| Engineering and Administrative | Information not provided. |
| Site Security | Information not provided. |
| Insurance | <p>Component Description: Insurance Premium - WEDH FCC Repack Ch. 30</p> <p>Amount: \$18,150.00</p> |
| MVPD Notification of Channel Change | Information not provided. |

| | |
|--|--|
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Storage | <p>Component Description: Rental for 2 storage containers</p> <p>Amount: \$1,130.08</p> <p>Component Description: WEDH FCC Repack Ch 30 Rental for 2 storage containers</p> <p>Amount: \$1,284.50</p> <p>Component Description: WEDH FCC Repack Ch 30 Site prep for 2 storage containers</p> <p>Amount: \$2,556.95</p> |
| Equipment Delivery and Handling Charges | Information not provided. |
| DTV Medical Facility Notification | Information not provided. |
| AM Pattern Disturbance -- Remedy | Information not provided. |
| AM Pattern Disturbance -- Impact study | Information not provided. |
| Non-zoning permits | Information not provided. |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |
| Local Zoning | Information not provided. |

Cost Information **Grand Total**

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|------------------------------|------------------------------------|-----------------------|--------------------|
| Total for all systems | \$3,191,215.98 | \$2,426,687.98 | \$630,429.84 |

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"> <li data-bbox="750 784 1037 1176">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. <li data-bbox="750 1198 1021 1444">2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. <li data-bbox="750 1467 1029 1747">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.

Meg Sakellarides
*Chief
Financial
Officer*

03/25/2019

| Certification | Section | Question | Response |
|---------------|--|--|----------|
| | <p>Submission of Actual Cost Documentation Statements</p> | <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.

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.

**Meg
Sakellarides**
*Chief
Financial
Officer*

03/25/2019

Attachments