

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 72123 Service: DTV Call WWJ-TV Channel: 21 (UHF)

ID: Sign:

File **0000026787**

Number:

FRN: **0003482189** Date **07/20**

Submitted: /2018

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|----------------------|--------------------|-------------------|
| CBS BROADCASTING INC. Doing Business As: CBS BROADCASTING INC. | Daniel G. Ryson 1725 DeSales St. NW Suite 501 Washington, DC 20036 United States | +1 (202) 457-4074 | dryson@cbs. com | Corporation |

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 |
|---|---|-----------------------|--------------------|
| Daniel G. Ryson Associate Director of Spectrum Management CBS | Daniel G. Ryson 1725 DeSales Street NW Suite 501 Washington, DC 20036 United States | +1 (202) 457- 4075 | dryson@cbs. 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. | Yes |
| Briefly describe transition plan | New channel 21 TFU-18 antenna and 6-1 /8" line to be installed on the south arm of candelabra. Tower owner providing interim broad band antenna system to be leased. |

Transmitters

| 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 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 | SigmaCD- 2200P2 |
| | Year | 1999 |
| | Туре | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 46 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? | Yes |
| | Manufacturer | |
| | Model | ULXTED-60 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 38.4 kW |
| | Justification for New Transmitter | GatesAir Won't Retune (See Exhibit 1). IOT replacement is more expensive (See Exhibit 2A). Proposed replacement is less expensive (Exhibit 3B). See also May 2018 Statement. |

Primary Transmitter

Other Transmitter Costs

| Question | Response |
|---------------------------------------|---------------------------------------|
| Service Entrance (3 phases 800A 208V) | No |
| Switchgear (industrial 800 amp) | No |
| | Service Entrance (3 phases 800A 208V) |

| | Transformer (490\/) | No |
|---|--|--|
| | Transformer (480V) | INO |
| | Power | N/A |
| | Rigid Conduit and Wiring | No |
| | Size | N/A |
| | Length | N/A |
| | Other Electrical Service | Yes |
| | Description | Various Main Site Electrical Work (See Exhibit 4). |
| 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 |
|----------------------|---|
| GatesAir Site Survey | Advanced Site Survey Services. Includes as-built and future layout drawings. See Exhibit 3B Item F. |
| State Sales Tax | Michigan Sales Tax of 6% on all products and services shown on Exhibit 3B. |

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? | No |
| | 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 | Top Mount |
| | Antenna position in stack | Тор |
| | Polarization | Horizontal |
| | Туре | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 425.0 kW |

| Manufacturer | |
|--------------|-----------|
| Model | TFU-18GTH |
| Year | 1998 |

Primary Antenna

New Antenna Costs

| Section | Question | Response |
|-------------------------|--|--------------------|
| New Antenna Description | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | 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 | Elliptical |
| | Туре | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 264.0 kW |
| | Manufacturer | |
| | Model | TFU-18GTH |

| Year | 2018 |
|-------------------------------|-------------------------------------|
| Justification for New Antenna | Existing antenna cannot be retuned. |

Primary Antenna

Other Antenna Costs

| Section | Question | Response |
|---|---|----------|
| Combiner for Shared 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? | 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 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 |

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

| Section | Question | Response |
|-------------------------|--|----------------------------------|
| New Antenna Description | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Leased |
| | Owner | American Tower Corporation |
| | Is antenna shared? | Yes |
| | 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 | Elliptical |
| | Туре | Broadband Slot |
| | Number of Stations Supported | 3 |
| | Number of Panels/Bays | 8 |
| | Lower Limit | 407.00 MHz |
| | Upper Limit | 698.00 MHz |
| | Design power capacity in use | 0.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 264.0 kW |
| | Manufacturer | |
| | Model | TFU-24 WB /VP-C160 |

| Year | 2018 |
|-------------------------------|---|
| Justification for New Antenna | Required for continued operation while main WWJ-TV antenna is replaced. |

Interim Antenna

Other Antenna Costs

| Section | Question | Response |
|--------------------------------|---|---------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | Yes |
| | Туре | 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? | В |
| | Feed Line Size | 7 3/16 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 | | |
|-------------------|--|--|
| 44 | | |
| 21 | | |
| 43 | | |

Interim Antenna

Other Antenna Cost Not Listed

| Name | Description |
|-------------------------|--|
| Combiner Cage | 24X20 fenced combiner cage area materials and installation. See Exhibit 7A |
| Install Combiner | Cost is for installing and proofing combiner. |
| Interim Antenna Rigging | Cost is for the labor to remove the old side- mount analog channel 62 antenna and waveguide, install the new transmission line, and install interim antenna. |
| Conduit | This cost includes 200 L/F of 2" conduit and conductor to adequately supply the HVAC unit. |
| Nitrogen Generator | Nitrogen Generator Upgrade. See Exhibit 7A. |
| Interim Tower Rental | ATC site and tower rental Required for station to minimize on-air disruption, maintain coverage, and complete the tower work in a safe, timely manner. See Exhibit 7A. |
| New Electrical Panel | New HVAC electrical sub-panel for new AC unit required for the repack combiner area fed off of existing 480/208 main panel. This equipment is required to provide the existing power to the HVAC unit. |

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

Primary Transmission Line

Existing Transmission Line

| on 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 | Manufacturer | |
| Line Manufacturer and Type | Туре | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1150 feet per run |

Primary Transmission

New Transmission Line

| n Line Section | Question | Response |
|-----------------------------|---|---|
| New Transmission Line Costs | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Туре | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1150 feet per run |
| | Justification for New Transmission Line | Existing line segment length cannot be used on new channel. |

Primary

Other Transmission Line Expenses Not Listed

| Transmission | Name | Description |
|--------------|----------------|--|
| | RF Accessories | Coaxial Switch, Switch Controller, Dummy Load, etc. See Exhibit 9, Item C. |

Interim

New Transmission Line

| Transmissio | n Settion | Question | Response |
|-------------|---|--|---------------|
| | New Transmission Line | Use | Interim |
| | Costs | Description of Use | N/A |
| | | Change Type | Purchase New |
| | | Туре | Rigid |
| | | Diameter | 7 3/16 inches |
| | | Segment Length | Broadband |
| | | Other Segment Length | |
| | Number of parallel runs | 1 | |
| | Length | 995 feet per | |
| | Justification for New Transmission Line | Material costs for 995 foot 7- 3/16" Broadband transmission line, three (3) elbows and a nitrogen generator for pressurization control on the line. | |

Interim Transm

Other Transmission Line Expenses Not Listed

| nsmissio | Name | Description |
|----------|-----------------------------|---|
| | Interim Coax Switch | Coaxial switch between interim transmitter and interim antenna combiner. Permits transmitter testing. (See Exhibit 3B, Items D and G.) |
| | TX Line to Interim Combiner | Horizontal run of transmission line between transmitter and interim combiner. (See Exhibit 7A, last Page. Please disregard identical Items shown on Exhibit 3A, Items I and K.) |

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

| | | Response |
|---------------------------------------|---|----------------------|
| Existing Tower | Type of change | Modify Existing |
| Description | 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? | Unknown |
| | Is tower compliant with Rev G? | Unknown |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1003429 |
| Coordinates (NAD83 (| Latitude (NAD83) | 42° 26' 52.5" N- |
| North American Datum of 1983)) | Longitude (NAD83) | 083° 10' 23.1" W- |
| | Overall Structure Height | 1086.93 feet |
| | Support Structure Height | 1012.13 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 662.07 feet |

| Structure Type | GTOWER - Guyed Structure Used for Communication Purposes |
|------------------|--|
| Tower Owner | American Tower, LLC |
| Date Constructed | 06/11/1999 |

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 |
|-------------|-----------|---------|
| 16817 | WTVS | DTV |
| 59592 | WJLB | FM |
| 59952 | WDTW-FM | FM |
| 74211 | WMYD | DTV |
| 6056 | WRCJ-FM | FM |
| 6594 | WNIC | FM |
| 6592 | WKQI | FM |

Primary Tower

Tower Modification Costs

| Section | Question | Response |
|----------------------|--|---|
| Engineering Study | Please what type of engineering study is required, if any: | Study needed for undocumented /poorly 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 |
|-------------------------|--|
| Structural Engineering | Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment (see Exhibit 6). |
| Permit Drawing Packages | Construction drawing packages for Tower and Ground Permits. |

Outside Professional

| Section | Question | Response |
|--|--|-----------------------------------|
| Services Costs Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 250 |
| | Explanation | Company lacks internal resources. |
| Outside RF consulting Engineering Services | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | No |
| | Quantity | N/A |
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| Attorney and Other Outside Consulting | Prepare and file Form FCC Construction Permit Application | No |
| Services | For Auxiliary Facility | N/A |
| | For Main Facility | N/A |
| | Prepare and file Form FCC License to Cover Application | No |
| | For Auxiliary Facility | N/A |

| | For Main Facility | N/A |
|----------------------------------|--|-----|
| | Prepare request for Special Temporary Authority | No |
| | Quantity | N/A |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | Yes |
| | 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 | No |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| RF Field Engineering Services | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |
| | Justification | N/A |
| | | |

Outside Professional

Other Professional Services Expenses Not Listed

| II Services Costs | Description |
|---------------------------|--|
| Site Coordination Meeting | Meeting to coordinate efforts among broadcasters, tower owner, and tower contractor. |

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 | Yes |
| | FCC License to Cover Application | Yes |
| | 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? | No |
| | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change? | No |
| | Does this relocation require MVPD Notification of a Channel Change? | Yes |

Other Expenses

Other Expenses Not Listed

| Name | Description |
|---------------------------|---|
| Deinstall Old Transmitter | Deinstallation of present primary transmitter. (See Exhibit 3A Item G.) |

Cost Information

Transmitters

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

| Description Primary Transmitter ULXTED-60 | Predetermined Cost Estimate \$1,625,834.31 | Estimated Cost \$1,524,783.17 | Estimated Cost Justification | Actual Cost \$424,059.72 | Actual Cost Justification |
|--|--|-------------------------------|---|-----------------------------|------------------------------|
| GatesAir Site Survey | \$9,685.80 | \$9,685.80 | GatesAir Advanced Site Survey. Provides as-built and proposed facility layout drawings. (See Exhibit 3B, Item F.) | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | \$1,473,000.00 | \$1,371,948.86 | Please see May 2018 Statement and Exhibit 3B, Items A, B, C, and H. | \$424,059.72 | N/A |
| Other Electrical Service: Various Main Site Electrical Work (See Exhibit 4). | \$53,719.00 | \$53,719.00 | Various primary transmitter site electrical work. (See Exhibit 4) | N/A | N/A |

| State Sales Tax | \$89, 42 9.51 | \$89,429.51 | 6% Michigan State Sales Tax on products and services shown on | N/A | N/A |
|-----------------------------|----------------------|----------------|---|--------------|-----|
| Sub-total | \$1,625,834.31 | \$1,524,783.17 | Exhibit 3B. | \$424,059.72 | N/A |
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | N/A | \$535,817.22 | N/A |

Components

| Actual Information Description | File Name | |
|--|---------------------------------|--|
| GatesAir Site Survey | Information not provided. | |
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | Component Description: Amount: | 1/3 Down payment for ULXTE-60 Main Transmitter. \$424,059.72 |
| Other Electrical Service: Various Main Site Electrical Work (See Exhibit 4). | Information not provided. | |
| State Sales Tax | 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-24 WB /VP-C160 | \$301,213.00 | \$276,766.00 | | \$109,582.50 | |
| Combiner Cage | \$5,000.00 | \$5,000.00 | 24x20' fenced combiner cage area materials and installation with 10' privacy slats. See Exhibit 7A. | \$5,000.00 | N/A |
| Interim Tower Rental | \$57,600.00 | \$57,600.00 | Rental fee for tower and ground space to support interim antenna, combiner, and interim transmitter. See Exhibit 7A. | \$57,600.00 | N/A |

| New Electrical Panel | \$1,667.00 | \$1,667.00 | New HVAC electrical sub-panel for new AC unit required for the repack combiner area HVAC unit and combiner monitoring (see Exhibit 7A). | \$1,667.00 | N/A |
|---|-------------|------------|---|------------|-----|
| Nitrogen Generator | \$5,000.00 | \$5,000.00 | Please see Exhibit 7A | \$5,000.00 | N/A |
| Conduit | \$833.00 | \$833.00 | This cost includes 200 L/F of 2" conduit and conductor to adequately supply the HVAC unit (see Exhibit 7A). | \$833.00 | N/A |
| Install Combiner | \$8,333.00 | \$8,333.00 | Cost is for installing and proofing combiner. See Exhibit 7A Page 3. | \$8,333.00 | N/A |
| Elbow complex, broadband, at antenna input, per 7 3/16. feedline (if needed) | \$16,850.00 | \$3,333.00 | Pro-rata share (see Exhibit 7A). | \$3,333.00 | N/A |

| New combiner, cost per channel (without antenna) | \$84,200.00 | \$76,667.00 | Pro-rata share (see Exhibit 7A). | \$24,483.50 | N/A |
|---|--------------|--------------|---|-------------|-----|
| Sweep test of existing antenna | \$6,730.00 | \$3,333.00 | See Exhibit 7A | \$3,333.00 | N/A |
| UHF - High Power, Side Mount, basic slot antenna, 8 bay,, 264 kW input, directional,, elliptically or circularly polarized | \$60,000.00 | \$60,000.00 | Pro-rata share (see Exhibit 7A). | N/A | N/A |
| Interim Antenna Rigging | \$55,000.00 | \$55,000.00 | Cost is for the labor to remove the old sidemount analog channel 62 antenna and waveguide and install new line and interim antenna. See Exhibit 7A. | N/A | N/A |
| Primary Antenna TFU-18GTH | \$296,230.00 | \$167,396.00 | | \$0.00 | |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | N/A | N/A |

| UHF - High Power Top Mount (200- 1000 kW), One station antenna, elliptically or circularly polarized | \$289,500.00 | \$160,996.00 | Exhibit 5 Items 1 and 2, minus \$16,950 cost of V- Pol. | N/A | N/A |
|---|----------------|----------------|---|--------------|-----|
| Sub-total | \$597,443.00 | \$444,162.00 | N/A | \$109,582.50 | N/A |
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | N/A | \$535,817.22 | N/A |

Components

| Actual Information Description | File Name | |
|--------------------------------|------------------------|---|
| Combiner Cage | | |
| | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A). |
| | Amount: | \$5,000.00 |
| Interim Tower Rental | | |
| | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A). |
| | Amount: | \$57,600.00 |

| New Electrical Panel | | |
|----------------------|------------------------|---|
| | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A). |
| | Amount: | \$1,667.00 |
| Nitrogen Generator | | |
| | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A). |
| | Amount: | \$5,000.00 |
| Conduit | | |
| | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A). |
| | Amount: | \$833.00 |
| Install Combiner | | |
| | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC total estimated cost, main plus interim. (See Exhibits 6A and 7A). |
| | Amount: | \$8,333.00 |

| Elbow complex, broadband, | | |
|---|---------------------------|---|
| at antenna input, per 7 3/16. feedline (if needed) | Component Description: | Invoice is 25% Down Payment for \$438,330 ATC |
| | | total estimated cost, main plus interim. (See |
| | | Exhibits 6A and 7A). |
| | Amount: | \$3,333.00 |
| New combiner, cost per channel (without antenna) | | |
| chainer (without antenna) | Component Description: | Invoice is 25% Down Payment |
| | | for \$438,330 ATC |
| | | total estimated cost, main plus |
| | | interim. (See |
| | | Exhibits 6A and 7A). |
| | Amount: | \$24,483.50 |
| Sweep test of existing | | |
| antenna | Component Description: | Invoice is 25% |
| | | Down Payment |
| | | for \$438,330 ATC total estimated |
| | | cost, main plus |
| | | interim. (See Exhibits 6A and |
| | | 7A). |
| | Amount: | \$3,333.00 |
| UHF - High Power, Side | Information not provided. | |
| Mount, basic slot antenna, 8 bay,, 264 kW input, | | |
| directional,, elliptically or | | |
| circularly polarized | | |
| Interim Antenna Rigging | Information not provided. | |
| | I . | |

UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized Information not provided.

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 | \$417,247.54 | \$163,522.54 | | \$0.00 | |
| Interim Coax Switch | \$51,022.54 | \$51,022.54 | Coaxial switch between interim transmitter and combiner. Permits off- air testing of interim transmitter. Includes Installation. (See Exhibit 3B, Items D and G.) | N/A | N/A |
| Rigid Transmission Line - copper, 7 3 /16" broadband | \$331,335.00 | \$77,610.00 | Pro-rata Material costs for 995 foot 7-3 /16" Broadband transmission line and three (3) elbows (see Exhibit 7A). | N/A | N/A |

| TX Line to Interim Combiner | \$34,890.00 | \$34,890.00 | Horizontal run of transmission line between transmitter and interim combiner. Includes Installation. (See Exhibit 7A, last page.) | N/A | N/A |
|---|----------------|----------------|---|--------------|-----|
| Primary Transmission Line | \$340,932.42 | \$252,598.12 | | \$0.00 | |
| Rigid Transmission Line - copper, 6 1 /8" broadband | \$266,800.00 | \$178,465.70 | Required for new antenna (see Exhibit 5). | N/A | N/A |
| RF Accessories | \$74,132.42 | \$74,132.42 | Coaxial Switch, Switch Controller, Dummy Load, etc. See Exhibit 9, Item C. | N/A | N/A |
| Sub-total | \$758,179.96 | \$416,120.66 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | N/A | \$535,817.22 | N/A |

Information not provided.

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 GTOWER | \$621,033.00 | \$428,000.00 | | \$0.00 | |
| Permit Drawing Packages | \$9,400.00 | \$9,400.00 | Permit drawing packages for tower (\$4,700) and building A&E. See Exhibit 6A. | N/A | N/A |
| Structural Engineering | \$6,333.00 | \$6,333.00 | Rigorous Structural analysis to access the structural capacity and modifications needed to accommodate the repacked equipment. Cost decreased since last estimate. See Exhibit 6A. | N/A | N/A |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00 | \$400,000.00 | N/A | N/A | N/A |

| Minor tower | \$158,000.00 | \$4,000.00 | Cost for | N/A | N/A |
|-----------------------|----------------|----------------|-----------------|--------------|-----|
| reinforcement | | | plumb and | | |
| /modifications | | | tension after | | |
| | | | customer | | |
| | | | installation is | | |
| | | | complete. | | |
| | | | See Exhibit | | |
| | | | 6A. | | |
| Tower | \$26,300.00 | \$8,267.00 | Cost | N/A | N/A |
| mapping for | | | decreased | | |
| an | | | from prior | | |
| undocumented | | | estimate. See | | |
| /poorly | | | Exhibit 6A. | | |
| documented | | | | | |
| tower and | | | | | |
| preparation of | | | | | |
| documentation | | | | | |
| necessary for | | | | | |
| tower load | | | | | |
| study | | | | | |
| Sub-total | \$621,033.00 | \$428,000.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | N/A | \$535,817.22 | N/A |

Information not provided.

Cost Information

Outside Professional Services

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|-----------------------------|-------------------|---------------------------------|-------------|------------------------------|
| Outside Professional Services | \$87,775.00 | \$65,083.00 | | \$2,175.00 | |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | \$2,105.00 | \$2,000.00 | N/A | \$1,300.00 | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | \$875.00 | N/A |
| Attorney Fees - Negotiation of lease and other matters for shared locations | \$4,210.00 | \$4,000.00 | N/A | N/A | N/A |

| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application | \$1,580.00 | \$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 |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | N/A | N/A | N/A |
| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |
| ASR modification (prepare FCC Form 854) | \$2,105.00 | \$250.00 | N/A | N/A | N/A |
| RF Exposure Measurements | \$21,050.00 | \$3,333.00 | RF Exposure measurements. See Exhibit 7A. | N/A | N/A |

| Site Coordination Meeting | \$2,500.00 | \$2,500.00 | Meeting to coordinate efforts between broadcasters, tower owner, and tower contractors. | N/A | N/A |
|---|----------------|----------------|---|--------------|-----|
| Project management of the transition | \$39,500.00 | \$37,500.00 | Company lacks internal resources. | N/A | N/A |
| Sub-total | \$87,775.00 | \$65,083.00 | N/A | \$2,175.00 | N/A |
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | N/A | \$535,817.22 | N/A |

| Actual Information Description | File Name | |
|---|---------------------------------|--|
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | Component Description: Amount: | Prepare Engineering Section of FCC Construction Permit Application. \$1,300.00 |
| Perform engineering study for new channel assignment and antenna development | Component Description: Amount: | Conduct review of channel assignment. Determine Max ERP. \$875.00 |
| Attorney Fees - Negotiation of lease and other matters for shared locations | Information not provided. | |

| RF Consulting Engineer Fees- Aux Antenna: Prepare | Information not provided. |
|---|---------------------------|
| engineering section of FCC Form 2100, License to Cover Application | |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Information not provided. |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |
| ASR modification (prepare FCC Form 854) | Information not provided. |
| RF Exposure Measurements | Information not provided. |
| Site Coordination Meeting | Information not provided. |
| Project management of the transition | 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 | \$83,139.80 | \$76,539.80 | | \$0.00 | |
| Deinstall Old Transmitter | \$21,844.80 | \$21,844.80 | Complete disconnection of Harris Sigma CD transmitter and move to staging area on site. (See Exhibit 3B, Item I.) | N/A | N/A |
| MVPD Notification of Channel Change | \$1,000.00 | \$1,000.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | \$17,300.00 | \$17,300.00 | Primary transmitter shipping. See Exhibit 3B, Page 1. | N/A | N/A |
| Local Zoning | \$5,000.00 | \$5,000.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 minor change CP application | \$1,110.00 | \$1,070.00 | 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 |

| | 47.444.45 | # = 000 00 | | N1/A | . / . |
|--|----------------|-------------------|---|--------------|--------------|
| Non- zoning permits | \$5,000.00 | \$5,000.00 | Local permits and drawings. See ATC quotes. | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$20,000.00 | \$20,000.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$5,000.00 | N/A | N/A | N/A |
| Sub-total | \$83,139.80 | \$76,539.80 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | N/A | \$535,817.22 | N/A |

Information not provided.

Cost Information

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|--------------|
| Total for all systems | \$3,773,405.07 | \$2,954,688.63 | \$535,817.22 |

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

Section Question Response

Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Andrew J Siegel Assistant Secretary

07/20/2018

Section Question Response

Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Andrew J Siegel Assistant Secretary

07/20/2018

Attachments