



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **14050** | Service: **DTV** | Call **WCCT-TV** | Channel: **33 (UHF)** |
ID:
File **0000028238** | Sign:
Number:
FRN: **0028358455** | Date **02/27**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|-----------------------------|------------------------|---------------------------------|
| TEGNA BROADCAST HOLDINGS, LLC | Denise A. Branson, Sr. Paralegal 8350 BROAD STREET SUITE 2000 TYSONS, VA 22102 United States | +1 (703) 873- 6606 | DBRANSON@TEGNA. COM | Limited Liability Company |

Reimbursement Contact Name and Information

| Applicant | Address | Phone | Email |
|----------------|---------|-------|-------|
| [Confidential] | | | |

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---|--|-----------------------|----------------------------|
| Bill Vanduynehoven , Vanduynehov . Director of Engineering operations Tribune broadcasting | Bill Vanduynehoven 2211 Rabbit Hill Cir Dacula, GA 30019 United States | +1 (404) 312- 8693 | BillV@Tribunemedia. 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 antenna and replace shared Transmission line with new transmission line. Replace transmitter |

Transmitters

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

**Auxiliary
Transmitter****Add Transmitter Information**

| Section | Question | Response |
|---|--|-----------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Auxiliary (Backup) |
| | Description of Use | Auxiliary |
| | 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 | Ultimate 8K8 |
| | Year | 2010 |
| | Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power Capacity | 6 kW |

**Auxiliary
Transmitter****New Transmitter Costs**

| Section | Question | Response |
|------------------------|---|---|
| New Transmitter | Use | Auxiliary (Backup) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Manufacturer | |
| | Model | ULXTE-10 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 6.2 kW |
| | Justification for New Transmitter | Current transmitter is not supported or re- tunable as stated by the manufacturer |

**Auxiliary
Transmitter****Other Transmitter Costs**

| Section | Question | Response |
|---------------------------|---------------------------------------|----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | No |
| | Transformer (480V) | No |
| | Power | N/A |
| | Rigid Conduit and Wiring | No |
| | Size | N/A |
| | Length | N/A |

| | | |
|--|---|--------------------|
| | Other Electrical Service | Yes |
| | Description | Electrical Install |
| HVAC Service | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No |
| | Size | N/A |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

**Auxiliary
Transmitter**

Other Transmitter Cost Not Listed

Information not provided.

**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-2 |
| | Year | 2000 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 40 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 | ULXTE-30 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 18 kW |
| | Justification for New Transmitter | Current transmitter can not be re-tuned as stated by Manufacturer |

**Primary
Transmitter**

Other Transmitter Costs

| Section | Question | Response |
|--------------------|---------------------------------------|------------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | Yes |
| | Switchgear (industrial 800 amp) | Yes |
| | Transformer (480V) | No |
| | Power | N/A |
| | Rigid Conduit and Wiring | Yes |
| | Size | 2 inches |
| | Length | 100.0 feet |
| | Other Electrical Service | No |
| | | |

| | | |
|--|---|-----|
| | Description | N/A |
| HVAC Service | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No |
| | Size | N/A |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

**Primary
Transmitter**

Other Transmitter Cost Not Listed

Information not provided.

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 | Top |
| | Polarization | Elliptical |
| | 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) | 50.0 kW |
| | | |

| | |
|--------------|-----------------------|
| Manufacturer | |
| Model | TFU-10JTH /VP-R O4 |
| Year | 2008 |

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? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Types | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Top |
| | Polarization | Elliptical |
| | 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) | 70.0 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|---|
| Model | TFU-11JTH /VP-R 04 |
| Year | 2019 |
| Justification for New Antenna | Current antenna will not work on assigned frequency |

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 | 4 1/16 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 |

**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 | 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) | 500.0 kW |
| | Manufacturer | |
| | Model | TFU -WB16 |
| | Year | 2019 |

| | | |
|--|-------------------------------|--|
| | Justification for New Antenna | Temporary antenna to use during construction and transition. |
|--|-------------------------------|--|

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

20

31

**Interim
Antenna**

Other Antenna Cost Not Listed

| Name | Description |
|---------------------|---|
| Combiner connection | Interim antenna combiner connection and mounting |
| Lease Cost | Tower lease cost for adding temporary antenna per station |

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? | Yes |
| | 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 | 1375 feet per run |

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

| Facility ID | Call Sign |
|-------------|-----------|
| 14050 | WCCT-TV |
| 147 | WTIC-TV |

Primary
Transmission Line

New Transmission Line

| Section | Question | Response |
|--------------------------------|---|----------------------|
| New Transmission Line Costs | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 19 1/2 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1420 feet per run |
| | | |

| | | |
|--|---|---|
| | Justification for New Transmission Line | Current shared line is not supported and will not work on new channel. Also tower will not support heavier line. With the new channel assignments WCCT and WTIC cannot share a transmission line. |
|--|---|---|

Primary Transmission Line **Other Transmission Line Expenses Not Listed**
Information not provided.

Interim **New Transmission Line**
Transmission Line

| Section | Question | Response |
|------------------------------------|---|---|
| New Transmission Line Costs | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Segment Length | Broadband |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1200 feet per run |
| | Justification for New Transmission Line | Transmission line for temporary operation Will be installed by WTIC. |

Interim **Other Transmission Line Expenses Not Listed**
Transmission Line

Information not provided.

**Tower
Equipment
And
Rigging
Costs**

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

**Primary
Tower**

Existing Tower

| Section | Question | Response |
|---|---|--|
| Existing Tower Description | Type of change | Modify Existing |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | 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 |
|-------------|-----------|---------|
| 66465 | WTIC-FM | FM |
| 1900 | WZMX | FM |
| 1910 | WRCH | FM |
| 13602 | WEDH | DTV |
| 147 | WTIC-TV | DTV |

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? | Yes |

**Primary
Tower**

Other Tower Expenses Not Listed

| Name | | Description |
|----------------------|--|---|
| Additional Insurance | | Insurance increase required by Site owner |
| Weather delays | | Delays in construction due to weather |

**Outside
Professional Services Costs**

| Section | Question | Response |
|---|--|--------------------------------|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 100 |
| | Explanation | Landlord management of project |
| 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 | No |
| | 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 | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | No |
| | Prepare or Review FCC Form 399 for Reimbursement | No |
| | Address transition timing and coordination issues w/ other stations and wireless providers | No |
| RF Field Engineering Services | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 10 |
| | Justification | Intermodulation study |

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

Services 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 | 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 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? | Yes |
| | Does this relocation require MVPD Notification of a Channel Change? | Yes |

| | |
|-----------------------|----------------------------------|
| Other Expenses | Other Expenses Not Listed |
| | Information not provided. |

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-30 | \$739,200.00 | \$692,500.00 | | \$453,849.79 | |
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | \$684,000.00 | \$640,000.00 | N/A | \$453,849.79 | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | \$2,600.00 | \$2,500.00 | N/A | N/A | N/A |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | N/A |
| Service entrance 3 phase/800 amp/208 volt | \$14,400.00 | \$13,700.00 | N/A | N/A | N/A |
| Auxiliary Transmitter ULXTE-10 | \$298,500.00 | \$255,000.00 | | \$192,769.85 | |
| Other Electrical Service: Electrical Install | <i>\$25,000.00</i> | \$25,000.00 | N/A | \$23,342.00 | N/A |

| | | | | | |
|--|----------------|----------------|-----|----------------|-----|
| UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW | \$273,500.00 | \$230,000.00 | N/A | \$169,427.85 | N/A |
| Sub-total | \$1,037,700.00 | \$947,500.00 | N/A | \$646,619.64 | N/A |
| Total for all systems | \$2,901,459.66 | \$2,141,954.66 | N/A | \$1,597,956.20 | N/A |

Components

| Actual Information | |
|--------------------|-----------|
| Description | File Name |

| | |
|--|---|
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | Component Description: Site Survey Amount: \$5,630.57 |
| | Component Description: Gates US0327106 v200227pmv1 Amount: \$652.62 |
| | Component Description: Gates GO10004877-Install v200226pmv1 Amount: \$29,286.40 |
| | Component Description: Second payment for ULXTE-30 Amount: \$144,690.99 |
| | Component Description: Deposit for Primary Transmitter ULXTE-30 Amount: \$140,620.08 |
| | Component Description: 3rd Payment ULXTE-30 Amount: \$132,969.13 |
| 2" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| Switchgear - industrial 800 amp | Information not provided. |
| Service entrance 3 phase /800 amp/208 volt | Information not provided. |

| | |
|--|--|
| Other Electrical Service: Electrical Install | <div> Component Description: D'Amato 09965 v200226pmv1 </div> <div> Amount: \$23,342.00 </div> |
| UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW | <div> Component Description: 2nd payment for ULXTE-10 </div> <div> Amount: \$55,911.19 </div> |
| | <div> Component Description: 3rd payment ULXTE-10 </div> <div> Amount: \$31,901.01 </div> |
| | <div> Component Description: Gates GO10004878- Install v200225pmv1 </div> <div> Amount: \$24,794.00 </div> |
| | <div> Component Description: Deposit for Aux Antenna ULXTE-10 </div> <div> Amount: \$56,821.65 </div> |

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 | \$176,630.00 | \$72,000.00 | | \$0.00 | |
| Lease Cost | <i>\$65,000.00</i> | \$65,000.00 | N/A | \$0.00 | N/A |
| Combiner connection | <i>\$7,000.00</i> | \$7,000.00 | N/A | N/A | N/A |
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | \$13,700.00 | \$0.00 | N/A | N/A | N/A |
| UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 500 kW input, directional,, horizontally polarized | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$0.00 | N/A | N/A | N/A |
| New combiner, cost per channel (without antenna) | \$84,200.00 | \$0.00 | N/A | N/A | N/A |

| | | | | | |
|--|-----------------------|-----------------------|---------------|-----------------------|------------|
| Primary Antenna TFU-11JTH /VP-R 04 | \$305,800.00 | \$163,700.00 | | \$157,636.50 | |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00 | \$147,000.00 | N/A | \$140,939.00 | N/A |
| Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed) | \$9,570.00 | \$10,300.00 | See Invoicing | \$10,297.50 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | \$6,400.00 | N/A |
| Sub-total | \$482,430.00 | \$235,700.00 | N/A | \$157,636.50 | N/A |
| Total for all systems | \$2,901,459.66 | \$2,141,954.66 | N/A | \$1,597,956.20 | N/A |

Components

| Actual Information | |
|---------------------|---|
| Description | File Name |
| Lease Cost | Component Description: one time lease cost Amount: \$65,000.00 |
| Combiner connection | Information not provided. |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------------------|---------------------------|----------------|------------|-------------------------------|-----------------|----------------|------------|-------------------------------|---------------------------|----------------|-------------|-------------------------------|---------------------------|----------------|------------|-------------------------------|-----------------|----------------|------------|-------------------------------|--|----------------|-------------|
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | Information not provided. | | | | | | | | | | | | | | | | | | | | | | | | |
| UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 500 kW input, directional,, horizontally polarized | Information not provided. | | | | | | | | | | | | | | | | | | | | | | | | |
| Sweep test of existing antenna | Information not provided. | | | | | | | | | | | | | | | | | | | | | | | | |
| New combiner, cost per channel (without antenna) | Information not provided. | | | | | | | | | | | | | | | | | | | | | | | | |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | <table> <tr> <td>Component Description:</td><td>Die 461033 v200225pmv2</td></tr> <tr> <td>Amount:</td><td>\$1,672.50</td></tr> <tr> <td>Component Description:</td><td>freight charges</td></tr> <tr> <td>Amount:</td><td>\$2,189.00</td></tr> <tr> <td>Component Description:</td><td>Die 449034 v200226pmv1</td></tr> <tr> <td>Amount:</td><td>\$10,875.00</td></tr> <tr> <td>Component Description:</td><td>Die 449034 v200226pmv1</td></tr> <tr> <td>Amount:</td><td>\$1,327.50</td></tr> <tr> <td>Component Description:</td><td>VPOL Components</td></tr> <tr> <td>Amount:</td><td>\$5,973.75</td></tr> <tr> <td>Component Description:</td><td>deposit ANT TFU-11JTH/VP-R 04 (SP) CH 33</td></tr> <tr> <td>Amount:</td><td>\$48,937.50</td></tr> </table> | Component Description: | Die 461033 v200225pmv2 | Amount: | \$1,672.50 | Component Description: | freight charges | Amount: | \$2,189.00 | Component Description: | Die 449034 v200226pmv1 | Amount: | \$10,875.00 | Component Description: | Die 449034 v200226pmv1 | Amount: | \$1,327.50 | Component Description: | VPOL Components | Amount: | \$5,973.75 | Component Description: | deposit ANT TFU-11JTH/VP-R 04 (SP) CH 33 | Amount: | \$48,937.50 |
| Component Description: | Die 461033 v200225pmv2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$1,672.50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | freight charges | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$2,189.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | Die 449034 v200226pmv1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$10,875.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | Die 449034 v200226pmv1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$1,327.50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | VPOL Components | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$5,973.75 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | deposit ANT TFU-11JTH/VP-R 04 (SP) CH 33 | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$48,937.50 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--|-------------------------------|--|
| | Component Description: | deposit - VPOL Components |
| | Amount: | \$5,973.75 |
| | Component Description: | INPUT COMPLEX 4-50 EHT |
| | Amount: | \$7,526.25 |
| | Component Description: | deposit - INPUT COMPLEX 4-50 EHT |
| | Amount: | \$7,526.25 |
| | Component Description: | ANT TFU- 11JTH /VP-R 04 (SP) CH 33 |
| | Amount: | \$48,937.50 |
| Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed) | Component Description: | Die 461033 v200225pmv2 |
| | Amount: | \$1,029.75 |
| | Component Description: | Die 449034 v200226pmv1 |
| | Amount: | \$0.01 |
| | Component Description: | deposit - elbow complex |
| | Amount: | \$4,633.87 |
| | Component Description: | elbow complex |
| | Amount: | \$4,633.87 |

| | | | |
|--------------------------------|-------------------------------|--|-------------------------|
| Sweep test of existing antenna | Component Description: | | Eng on site |
| | Amount: | | \$2,880.00 |
| | Component Description: | | deposit - Eng on site |
| | Amount: | | \$2,880.00 |
| | Component Description: | | Die 580030 |
| | Amount: | | v200226pmv1 \$640.00 |

Cost
Information

Transmission Line

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|----------------|------------------------------|----------------|---------------------------|
| Interim Transmission Line | \$278,400.00 | \$0.00 | | \$0.00 | |
| Rigid Transmission Line - copper, 6 1/8" broadband | \$278,400.00 | \$0.00 | N/A | N/A | N/A |
| Primary Transmission Line | \$286,840.00 | \$205,000.00 | | \$181,595.40 | |
| Rigid Transmission Line - copper, 6 1/8" | \$286,840.00 | \$205,000.00 | N/A | \$181,595.40 | N/A |
| Sub-total | \$565,240.00 | \$205,000.00 | N/A | \$181,595.40 | N/A |
| Total for all systems | \$2,901,459.66 | \$2,141,954.66 | N/A | \$1,597,956.20 | N/A |

Components

| Actual Information | |
|--|---------------------------|
| Description | File Name |
| Rigid Transmission Line - copper, 6 1/8" broadband | Information not provided. |

Rigid Transmission Line -
copper, 6 1/8"

Component Description: TLSCR's
Amount: \$1,718.50

Component Description: Die 449034
v200226pmv1
Amount: (\$4,639.96)

Component Description: deposit - T/L 6-75
EIA LENGTH 15'
TO 20' FIXED FLG
1 END/ SWIVEL
FLG 1
Amount: \$2,319.98

Component Description: deposit - 6-1-8" 75
OHM - 1443 FT
Amount: \$82,511.42

Component Description: T/L 6-75 EIA
LENGTH 15' TO
20' FIXED FLG 1
END/ SWIVEL
FLG 1
Amount: \$2,319.98

Component Description: Die 366003
v200226pmv1
Amount: \$14,854.06

Component Description: 6-1-8" 75 OHM -
1443 FT
Amount: \$82,511.42

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 | \$660,600.00 | \$612,800.00 | | \$591,150.00 | |
| Weather delays | <i>\$50,000.00</i> | \$50,000.00 | Actual costs | \$41,400.00 | N/A |
| Tower Helicopter Lift | <i>\$0.00</i> | \$0.00 | Included in Tower quote | N/A | N/A |
| Additional Insurance | <i>\$19,000.00</i> | \$19,000.00 | Included in tower quote | \$18,150.00 | N/A |
| Minor tower reinforcement /modifications | \$158,000.00 | \$0.00 | Included in tower quote | N/A | N/A |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00 | \$531,800.00 | As quoted by Vendor. Includes Helicopter lift | \$531,600.00 | N/A |
| Structural engineering tower load study for well documented tower | \$12,600.00 | \$12,000.00 | N/A | N/A | N/A |
| Sub-total | \$660,600.00 | \$612,800.00 | N/A | \$591,150.00 | N/A |
| Total for all systems | \$2,901,459.66 | \$2,141,954.66 | N/A | \$1,597,956.20 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Weather delays | Component Description: Weather days Amount: \$14,375.00 |
| | Component Description: Weather days Amount: \$2,875.00 |
| | Component Description: Weather days Amount: \$5,175.00 |
| | Component Description: Weather days Amount: \$18,975.00 |
| | Component Description: Weather days Amount: \$4,600.00 |
| Tower Helicopter Lift | Information not provided. |
| Additional Insurance | Component Description: Insurance increase Amount: \$18,150.00 |
| | |
| Minor tower reinforcement /modifications | Information not provided. |

| | | |
|---|---|---|
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | Component Description: Amount: | In progress during field installation \$104,360.00 |
| | Component Description: Amount: | Mobilization payment \$52,180.00 |
| | Component Description: Amount: | Down payment for rigging \$130,450.00 |
| | Component Description: Amount: | Plumb and Tension \$9,800.00 |
| | Component Description: Amount: | Completion and Acceptance \$52,180.00 |
| | Component Description: Amount: | Mobilization of Tower Crew \$52,180.00 |
| | Component Description: Amount: | Materials ready to ship \$78,270.00 |
| | Component Description: Amount: | In progress - Antenna installation \$52,180.00 |
| Structural engineering tower load study for well documented tower | 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 | \$58,045.00 | \$45,500.00 | | \$0.00 | |
| Additional Field Engineering Service, 10 Days | <i>\$5,000.00</i> | \$5,000.00 | N/A | N/A | N/A |
| RF Exposure Measurements | \$21,050.00 | \$11,000.00 | N/A | N/A | N/A |
| Prepare request for Special Temporary Authorization | \$4,100.00 | \$3,000.00 | N/A | N/A | N/A |
| 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 |

| | | | | | |
|--|----------------|----------------|-----|----------------|-----|
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | N/A | N/A |
| Project management of the transition | \$15,800.00 | \$15,000.00 | N/A | N/A | N/A |
| Sub-total | \$58,045.00 | \$45,500.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$2,901,459.66 | \$2,141,954.66 | N/A | \$1,597,956.20 | N/A |

Components

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 | \$97,444.66 | \$95,454.66 | | \$20,954.66 | |
| AM Pattern Disturbance -- Remedy | \$21,050.00 | \$20,000.00 | N/A | N/A | N/A |
| AM Pattern Disturbance -- Impact study | \$7,890.00 | \$7,500.00 | N/A | N/A | 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>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | <i>\$20,954.66</i> | \$20,954.66 | See attached / uploaded PDF file titled, "Gates US0327106 v200227pmv1.pdf". | \$20,954.66 | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <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 |

| | | | | | |
|------------------------------|----------------|----------------|-----|----------------|-----|
| Sub-total | \$97,444.66 | \$95,454.66 | N/A | \$20,954.66 | N/A |
| Total for all systems | \$2,901,459.66 | \$2,141,954.66 | N/A | \$1,597,956.20 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| AM Pattern Disturbance -- Remedy | Information not provided. |
| AM Pattern Disturbance -- Impact study | Information not provided. |
| MVPD Notification of Channel Change | Information not provided. |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Delivery and Handling Charges | <div> Component Description: Gates US0326509 v200225pmv1 Amount: \$5,400.00 </div> <div> Component Description: Gates US0327106 v200227pmv1 Amount: \$15,554.66 </div> |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |
| DTV Medical Facility Notification | Information not provided. |

| | | | |
|-------------------------|------------------------------|------------------------------------|-----------------------|
| Cost Information | Grand Total | | |
| | | Predetermined Cost Estimate | Estimated Cost |
| | | | Actual Cost |
| | Total for all systems | \$2,901,459.66 | \$2,141,954.66 |
| | | | \$1,597,956.20 |

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

| Certification | Section | Question | Response |
|---------------|---|---|----------|
| | Submission of Estimated Expenses Statements | <p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p> | |
| | | <ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. | |

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

| | |
|---|---|
| <p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p> | |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p> | <p>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>02/27/2020</p> |

| Certification | Section | Question | Response |
|---------------|--|--|----------|
| | Submission of Actual Cost Documentation Statements | WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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). | |
| | | <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.

| | |
|--|--|
| <p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p> | |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p> | <p>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>02/27/2020</p> |

Attachments