



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **37176** | Service: **DTV** | Call **WLTX** | Channel: **15 (UHF)** |
ID: | Sign:
File **0000028040**
Number:
FRN: **0024376113** | Date **03/30**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|----------------------------------|--|----------------------|------------------------|---------------------------------|
| PACIFIC AND SOUTHERN, LLC | Denise Branson, Sr. Paralegal TEGNA, Inc. 8350 Broad Street, Suite 2000 Tysons, VA 22102 United States | +1 (703) 873-6606 | dbranson@TEGNA. com | Limited Liability Company |

Reimbursement Contact Information

Reimbursement Contact Name and Information

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

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|--|--|-----------------------|-----------------------|
| Gary Davis <i>Regional Head of Technology and Operations</i> TEGNA | Gary Davis 8350 Broad Street Suite 2000 Tysons, VA 22102 United States | +1 (404) 873- 9199 | gadavis@tegna. 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 | WLTX must replace its primary antenna, transmission line and transmitter as a result of the repack. An interim facility must be built in order to operate station during the repack build-out and throughout the station's assigned phase. |

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 | Backup Transmitter |
| | 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 | CD3100P1 |
| | Year | 2001 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Single |
| | Power Capacity | 25 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? | Yes |
| | Manufacturer | |
| | Model | ULXTE-40 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 25.3 kW |
| | Justification for New Transmitter | Existing AUX transmitter cannot be re- tuned per manufacturer. Parts are no longer available to re-tune. Existing AUX transmitter is capable of making full ERP; therefore, new ULXTE- 40 AUX transmitter is reimbursable. |

**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 | Yes |
| | Size | 3 inches |
| | Length | 100.0 feet |
| | Other Electrical Service | Yes |
| | Description | Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. |
| 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? | Yes |
| | Size | 100.0 square feet |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

Auxiliary
Transmitter

Other Transmitter Cost Not Listed

| Name | Description |
|------------------------|---|
| Installation and Proof | Required to verify transmitter performance on new channel |
| Mask Filter System | See attached GatesAir quote |
| Freight | Freight |
| Change Order | Change Order |
| RF Accessories | Required for new channel as part of the RF system |

**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 | CD3100P1 |
| | Year | 2001 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Single |
| | Power Capacity | 25 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-40 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 25.3 kW |
| | Justification for New Transmitter | Old transmitter cannot be re-tuned per manufacturer. Parts are no longer available to re-tune. Reimbursable TPO is 20.9 kW based on initial 90-day filing CP. This would require a ULXTE-40. |

**Primary
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 | Yes |
| | Size | 3 inches |
| | Length | 100.0 feet |
| | Other Electrical Service | Yes |
| | Description | Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. |
| HVAC Service | Does the replacement transmitter require HVAC Service? | Yes |
| | Type | Heating and Cooling |
| | Size | 5 tons |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | Yes |
| | Size | 100.0 square feet |
| 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 |
|------|-------------|
|------|-------------|

| | |
|-------------------------------|---|
| RF Accessories | Required for new channel as part of the RF system |
| Mask Filter System | Required for new channel as part of the RF system |
| Installation and Proof | Required to verify transmitter performance on new channel |

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 | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 1000.0 kW |
| | | |

| | |
|--------------|-----------------|
| Manufacturer | |
| Model | TFU- 26DSC-R |
| Year | 2001 |

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? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Types | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | 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) | 951.0 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|--|
| Model | TFU-28ETT-R S260 |
| Year | 2019 |
| Justification for New Antenna | Station's licensed horizontally polarized, top-mount, main antenna cannot be re-tuned and must be replaced for new channel assignment. |

Primary Antenna

Other Antenna Costs

| Section | Question | Response |
|------------------------------------|---|----------------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | |
| | Type | |
| | Number of channels supported | N/A |
| | Frequencies of channels supported | N/A |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | N/A |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | Single Channel |
| | Feed Line Size | 7 3/16 inches inches |

| | | |
|---------------------------------|---|-----|
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for a high power antenna? | |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |
| Sweep Test | Do you require the sweep testing of transmission line and antenna? | Yes |

**Primary
Antenna**

Other Antenna Cost Not Listed

| Name | Description |
|--------------------------------|---|
| Antenna Mounting Flange | Antenna Mounting Flange |
| Hanger Vert Spring | Hanger Vert Spring |
| New Top Plate | Existing top-plate and/or bolt pattern may not work for new top-mount antenna |
| Shipping | \$9,800 |
| Tower Top Adapter | Tower Top Adapter |
| Reducer | Reducer |

**Interim
Antenna**

New Antenna Costs

| Section | Question | Response |
|--|--|------------------------|
| New Antenna Description | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Broadband Slot |
| | Number of Stations Supported | 1 |
| | Number of Panels/Bays | 24 |
| | Lower Limit | 488.00 MHz |
| | Upper Limit | 494.00 MHz |
| | Design power capacity in use | 100.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 1000.0 kW |
| | Manufacturer | |
| | Model | TFU-24WB- R S230 OS |
| | Year | 2018 |

| | | |
|--|-------------------------------|--|
| | Justification for New Antenna | An interim antenna is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. An interim antenna with a custom skull pattern is required to replicate existing coverage. |
|--|-------------------------------|--|

Interim Antenna

Other Antenna Costs

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

Interim
Antenna

Other Antenna Cost Not Listed

| Name | Description |
|----------|-------------|
| Shipping | \$6,800 |

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 | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1700 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 | 1700 feet per run |
| | Justification for New Transmission Line | Current Line will not work on new channel assignment. |

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

| Name | Description |
|----------------------|--|
| TX Line Sweep | Sweep required to verify post-transition channel measures well on existing line. |
| Misc Parts | Misc Parts |

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 | 1630 feet per run |
| | Justification for New Transmission Line | Line necessary for interim facility while new primary antenna and line are installed and throughout duration of assigned phase. |

Interim
Transmission Line

Other Transmission Line Expenses Not Listed

| Name | Description |
|----------------------|---|
| TX Line Sweep | Sweep required to verify post-transition channel measures well on new line. |

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

| Section | Question | Response |
|---|---|-------------------|
| Existing Tower Description | Type of change | Modify Existing |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Is this tower consider Complex? | No |
| | Is this tower currently shared with any other stations? | No |
| | One or more FM, AM or TV radio broadcaster(s) | N/A |
| | Others Types of Users | N/A |
| | Is tower documented for structural analysis? | No |
| | Is tower compliant with Rev G? | No |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1044489 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 34° 05' 50.0" N- |
| | Longitude (NAD83) | 080° 45' 50.0" W- |
| | Overall Structure Height | 1706.67 feet |
| | Support Structure Height | 1637.78 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 342.19 feet |

| | | |
|--|------------------|--|
| | Structure Type | TOWER - Free Standing or Guyed Structure |
| | Tower Owner | Pacific and Southern, LLC |
| | Date Constructed | 05/24/1985 |

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: | Major Reinforcements needed |

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional Services Costs**

| Section | Question | Response |
|---|--|--|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 852 |
| | Explanation | Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x852hrs (\$127800), a new OES component has been created & funded with part of the \$ removed from PM, & "Prepare & or review reimbursement form" has been increased |
| 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 | 2 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | Yes |
| | FAA Consultation (including preparation of FAA Form 7460) | Yes |
| | Negotiation of Lease and other Matter for Shared Locations | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| RF Field Engineering Services | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 20 |

| | | |
|--|---------------|--|
| | Justification | \$5,400 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services. |
|--|---------------|--|

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

| Name | Description |
|----------------------------|--|
| Other Legal Services | Other Legal Services related to the DTV Repack |
| Pre filing site review | outside engineering firm to review all sites |
| Other Engineering Services | Other Engineering Services related to the DTV Repack |

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 | Yes |
| Other Miscellaneous Expenses | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)? | Yes |
| | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | Yes |
| | Does this relocation require Equipment Storage? | Yes |
| | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change? | Yes |
| | Does this relocation require MVPD Notification of a Channel Change? | Yes |

**Other
Expenses**

Other Expenses Not Listed

| Name | Description |
|----------------|---------------------------|
| Internal labor | Local and Corporate Labor |

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-40 | \$1,189,429.49 | \$1,403,755.62 | | \$479,912.58 | |
| Installation and Proof | <i>\$58,543.75</i> | \$58,543.75 | See attached GatesAir quote | \$29,271.86 | N/A |
| Mask Filter System | <i>\$37,721.03</i> | \$37,721.03 | See attached GatesAir quote | \$18,860.52 | N/A |
| RF Accessories | <i>\$60,395.57</i> | \$60,395.57 | See attached GatesAir quote | \$30,197.79 | N/A |
| Other -- Building Addition Size: 100.0 | <i>\$25,000.00</i> | \$25,000.00 | New pad required for heat exchangers, transformers, pumps, etc. Equipment must also be shielded. | N/A | N/A |
| Other -- HVAC Service Type: H Size: 5 (Other) | <i>\$25,000.00</i> | \$25,000.00 | Additional HVAC required for operation of new air-cooled solid-state transmitter while still operating with main transmitter during testing period. | N/A | N/A |

| | | | | | |
|--|-----------------------|-----------------------|--|---------------------|--|
| Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | \$30,569.14 | \$30,569.14 | Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. See attached quotes and invoices. | \$30,569.14 | Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. See attached quotes and invoices. |
| 3" Rigid Conduit and Wiring (Cost per foot) | \$5,200.00 | \$4,900.00 | N/A | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | \$947,000.00 | \$1,161,626.13 | See attached GatesAir quote and comparable MSDC IOT quote from Comark. The quotes demonstrate that the proposed solid state upgrade would be \$60,561.46 cheaper than a 1-tube MSDC. | \$371,013.27 | N/A |
| Auxiliary Transmitter ULXTE-40 | \$1,180,805.16 | \$1,082,661.76 | | \$929,645.16 | |
| RF Accessories | \$60,395.57 | \$60,395.57 | See attached GatesAir quote | \$60,395.57 | N/A |

| | | | | | |
|---|--------------------|-------------|--|-------------|-----|
| Freight | \$12,729.90 | \$12,729.90 | Freight - See attached / uploaded PDF file titled "Gates US0326477-US0329529 v191023jgv2.pdf" | \$12,729.90 | N/A |
| Installation and Proof | \$58,543.75 | \$58,543.75 | See attached GatesAir quote | \$58,543.75 | N/A |
| Mask Filter System | \$37,721.03 | \$37,721.03 | See attached GatesAir quote | \$37,721.03 | N/A |
| Change Order | \$9,214.91 | \$9,214.91 | Change Order - See attached / uploaded PDF file titled "Gates US0326477-US0329529 v191023jgv2.pdf" | \$9,214.91 | N/A |
| Other -- Building Addition Size: 100.0 | \$25,000.00 | \$25,000.00 | New pad required for heat exchangers, transformers, pumps, etc. Equipment must also be shielded. | N/A | N/A |

| | | | | | |
|--|--------------------|----------------|--|----------------|-----|
| Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | \$25,000.00 | \$25,000.00 | Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | \$9,013.46 | N/A |
| 3" Rigid Conduit and Wiring (Cost per foot) | \$5,200.00 | \$4,900.00 | N/A | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | \$947,000.00 | \$849,156.60 | See GatesAir quote Q-77003 in attached PDF file titled "Gates US0326477 v191009pmv1.pdf" | \$742,026.54 | N/A |
| Sub-total | \$2,370,234.65 | \$2,486,417.38 | N/A | \$1,409,557.74 | N/A |
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | N/A | \$3,085,762.81 | N/A |

Components

Actual Information

Description

File Name

| | |
|------------------------|--|
| Installation and Proof | <div data-bbox="699 174 1361 367"> <p>Component Description: Inv JW30004445-1 WLTX Primary TX Install 1 3rd dp UL20180719jg v1</p> <p>Amount: \$19,514.57</p> </div> <div data-bbox="699 477 1361 705"> <p>Component Description: Gates inv #JW30004445-1A Primary TX Install pmt 2 UL20190319jgv1</p> <p>Amount: \$9,757.29</p> </div> |
| Mask Filter System | <div data-bbox="699 846 1377 1039"> <p>Component Description: Inv JW30004445-1 WLTX Primary TX Mask Filter 1 3rd dp UL20180719jg v1</p> <p>Amount: \$12,573.68</p> </div> <div data-bbox="699 1149 1361 1377"> <p>Component Description: Gates inv #JW30004445-1A Primary TX Mask Filter pmt 2 UL20190319jgv1</p> <p>Amount: \$6,286.84</p> </div> |

| | |
|---|--|
| RF Accessories | <div> <div> Component Description: Inv JW30004445-1 WLTX Primary TX RF Accessories 1 3rd dp UL20180719jg v1 </div> <div> Amount: \$20,131.86 </div> </div> <div> <div> Component Description: Gates inv #JW30004445-1A Primary TX RF Accessories pmt 2 UL20190319jgv1 </div> <div> Amount: \$10,065.93 </div> </div> |
| Other -- Building Addition Size: 100.0 | Information not provided. |
| Other -- HVAC Service Type: H Size:5 (Other) | Information not provided. |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|--|--|---|
| <p>Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc.</p> | <table> <tr> <td data-bbox="691 98 1114 367"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 98 1426 367"> <p>Airgas 9090294151 v191009pmv1 \$232.41</p> </td></tr> <tr> <td data-bbox="691 367 1114 636"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 367 1426 636"> <p>A and P 0106807 v190619jgv1 \$25,230.00</p> </td></tr> <tr> <td data-bbox="691 636 1114 904"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 636 1426 904"> <p>Mytec 20190804 v191007pmv1 \$600.00</p> </td></tr> <tr> <td data-bbox="691 904 1114 1173"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 904 1426 1173"> <p>Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1 \$3,004.49</p> </td></tr> <tr> <td data-bbox="691 1173 1114 1420"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 1173 1426 1420"> <p>Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1 \$1,502.24</p> </td></tr> </table> | <p>Component Description:</p> <p>Amount:</p> | <p>Airgas 9090294151 v191009pmv1 \$232.41</p> | <p>Component Description:</p> <p>Amount:</p> | <p>A and P 0106807 v190619jgv1 \$25,230.00</p> | <p>Component Description:</p> <p>Amount:</p> | <p>Mytec 20190804 v191007pmv1 \$600.00</p> | <p>Component Description:</p> <p>Amount:</p> | <p>Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1 \$3,004.49</p> | <p>Component Description:</p> <p>Amount:</p> | <p>Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1 \$1,502.24</p> |
| <p>Component Description:</p> <p>Amount:</p> | <p>Airgas 9090294151 v191009pmv1 \$232.41</p> | | | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>A and P 0106807 v190619jgv1 \$25,230.00</p> | | | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Mytec 20190804 v191007pmv1 \$600.00</p> | | | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Inv JW30004445-1 WLTX Primary TX Electrical 1 3rd dp UL20180719jg v1 \$3,004.49</p> | | | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Gates inv #JW30004445-1A Primary TX Electrical pmt 2 UL20190319jgv1 \$1,502.24</p> | | | | | | | | | | |
| <p>3" Rigid Conduit and Wiring (Cost per foot)</p> | <p>Information not provided.</p> | | | | | | | | | | |

UHF - Liquid Cooled Solid
State Transmitter 21 - 31
kW

Component Description:

Gates inv
#JW30004445-1A
Primary Transmitter
pmt 2
UL20190319jgv1

Amount:

\$123,671.09

Component Description:

This invoice was
originally
erroneously applied
to this Primary TX
Component, and
has now been
applied to the Aux
TX Component

Amount:

N/A

Component Description:

Inv JW30004445-1
WLTX Primary
Transmitter 1 3rd dp
UL20180719jg v1

Amount:

\$247,342.18

Component Description:

This invoice is being
replaced and is
therefore no longer
applicable.

Amount:

N/A

| | | | | | | | | | | | | | |
|-------------------------------|--|-------------------------------|--|----------------|-------------|-------------------------------|--|----------------|-------------|-------------------------------|---|----------------|-------------|
| RF Accessories | <table> <tr> <td data-bbox="691 98 1114 331">Component Description:</td><td data-bbox="1114 98 1428 331">Gates US0326477-US0329529 Aux TX access pmt 3 v191023jgv2</td></tr> <tr> <td data-bbox="691 331 1114 421">Amount:</td><td data-bbox="1114 331 1428 421">\$30,197.78</td></tr> <tr> <td data-bbox="691 465 1114 698">Component Description:</td><td data-bbox="1114 465 1428 698">Inv JW30004446-1 WLTX Aux TX RF Accessories 1 3rd dp UL20180719jg v1</td></tr> <tr> <td data-bbox="691 698 1114 788">Amount:</td><td data-bbox="1114 698 1428 788">\$20,131.86</td></tr> <tr> <td data-bbox="691 833 1114 1061">Component Description:</td><td data-bbox="1114 833 1428 1061">Gates inv #JW30004446-1A Aux TX RF Accessories pmt 2 UL20190319jgv1</td></tr> <tr> <td data-bbox="691 1061 1114 1151">Amount:</td><td data-bbox="1114 1061 1428 1151">\$10,065.93</td></tr> </table> | Component Description: | Gates US0326477-US0329529 Aux TX access pmt 3 v191023jgv2 | Amount: | \$30,197.78 | Component Description: | Inv JW30004446-1 WLTX Aux TX RF Accessories 1 3rd dp UL20180719jg v1 | Amount: | \$20,131.86 | Component Description: | Gates inv #JW30004446-1A Aux TX RF Accessories pmt 2 UL20190319jgv1 | Amount: | \$10,065.93 |
| Component Description: | Gates US0326477-US0329529 Aux TX access pmt 3 v191023jgv2 | | | | | | | | | | | | |
| Amount: | \$30,197.78 | | | | | | | | | | | | |
| Component Description: | Inv JW30004446-1 WLTX Aux TX RF Accessories 1 3rd dp UL20180719jg v1 | | | | | | | | | | | | |
| Amount: | \$20,131.86 | | | | | | | | | | | | |
| Component Description: | Gates inv #JW30004446-1A Aux TX RF Accessories pmt 2 UL20190319jgv1 | | | | | | | | | | | | |
| Amount: | \$10,065.93 | | | | | | | | | | | | |
| Freight | <table> <tr> <td data-bbox="691 1061 1114 1294">Component Description:</td><td data-bbox="1114 1061 1428 1294">Gates US0326477-US0329529 Aux TX freight pmt 3 v191023jgv2</td></tr> <tr> <td data-bbox="691 1294 1114 1391">Amount:</td><td data-bbox="1114 1294 1428 1391">\$12,729.90</td></tr> </table> | Component Description: | Gates US0326477-US0329529 Aux TX freight pmt 3 v191023jgv2 | Amount: | \$12,729.90 | | | | | | | | |
| Component Description: | Gates US0326477-US0329529 Aux TX freight pmt 3 v191023jgv2 | | | | | | | | | | | | |
| Amount: | \$12,729.90 | | | | | | | | | | | | |

| | |
|------------------------|---|
| Installation and Proof | <div> <div> Component Description: Gates US0326477- US0329529 Aux TX install pmt 3 v191023jgv2 </div> <div> Amount: \$29,271.89 </div> </div> <div> <div> Component Description: Gates inv #JW30004446-1A Aux TX Install pmt 2 UL20190319jgv1 </div> <div> Amount: \$9,757.29 </div> </div> <div> <div> Component Description: Inv JW30004446-1 WLTX Aux TX Install 1 3rd dp UL20180719jg v1 </div> <div> Amount: \$19,514.57 </div> </div> |
| Mask Filter System | <div> <div> Component Description: Gates US0326477- US0329529 Aux TX mask fltr pmt 3 v191023jgv2 </div> <div> Amount: \$18,860.51 </div> </div> <div> <div> Component Description: Gates inv #JW30004446-1A Aux TX Mask Filter pmt 2 UL20190319jgv1 </div> <div> Amount: \$6,286.84 </div> </div> <div> <div> Component Description: Inv JW30004446-1 WLTX Aux TX Mask Filter 1 3rd dp UL20180719jg v1 </div> <div> Amount: \$12,573.68 </div> </div> |

| | |
|---|---|
| Change Order | <div> <div>Component Description:</div> <div>Gates US0326477-US0329529 Aux TX CO pmt 3 v191023jgv2</div> <div>Amount:</div> <div>\$9,214.91</div> </div> |
| Other -- Building Addition Size: 100.0 | Information not provided. |
| Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | <div> <div>Component Description:</div> <div>Gates inv #JW30004446-1A Aux TX Electrical pmt 2 UL20190319jgv1</div> <div>Amount:</div> <div>\$1,502.24</div> </div> <div> <div>Component Description:</div> <div>Gates US0326477-US0329529 Aux TX elec pmt 3 v191023jgv2</div> <div>Amount:</div> <div>\$4,506.73</div> </div> <div> <div>Component Description:</div> <div>Inv JW30004446-1 WLTX Aux TX Electrical 1 3rd dp UL20180719jg v1</div> <div>Amount:</div> <div>\$3,004.49</div> </div> |
| 3" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |

| | | |
|--|-------------------------------|---|
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | | |
| | Component Description: | Gates US0326477- US0329529 Aux TX |
| | Amount: | pmt 3 v191023jgv2 \$371,013.27 |
| | | |
| | Component Description: | Gates inv #JW30004446-1A |
| | Amount: | Aux Transmitter pmt 2 UL20190319jgv1 \$123,671.09 |
| | | |
| | Component Description: | Inv JW30004446-1 WLTX Aux |
| | Amount: | Transmitter 1 3rd dp UL20180719jg v1 \$247,342.18 |

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-24WB- R S230 OS | \$308,160.35 | \$305,720.35 | | \$161,663.00 | |
| Side mount brackets for high power antennas (if not included in antenna base cost) | \$23,150.00 | \$22,000.00 | Per Widelity estimate | \$11,213.00 | N/A |
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | \$13,700.00 | \$13,000.00 | N/A | \$0.00 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | Per other Dielectric quotes | \$0.00 | N/A |
| UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized | \$252,520.35 | \$252,520.35 | N/A | \$150,450.00 | N/A |

| | | | | | |
|--|---------------------|---------------------|---|---------------------|-----|
| Shipping | \$6,800.00 | \$6,800.00 | N/A | N/A | N/A |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | \$5,260.00 | \$5,000.00 | Per Widelity estimate | N/A | N/A |
| Primary Antenna TFU-28ETT-R S260 | \$367,302.88 | \$303,245.63 | | \$268,639.38 | |
| Reducer | \$3,255.00 | \$3,255.00 | N/A | \$3,255.00 | N/A |
| Tower Top Adapter | \$20,175.00 | \$20,175.00 | N/A | \$11,096.25 | N/A |
| Shipping | \$6,400.00 | \$6,400.00 | N/A | N/A | N/A |
| New Top Plate | \$25,000.00 | \$25,000.00 | Existing top-plate and/or bolt pattern may not work for new top-mount antenna | \$9,078.75 | N/A |
| Antenna Mounting Flange | \$1,148.13 | \$1,148.13 | N/A | \$1,148.13 | N/A |
| Hanger Vert Spring | \$1,194.75 | \$1,194.75 | N/A | (\$816.75) | N/A |
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed) | \$13,900.00 | \$12,849.75 | Per Dielectric quote | \$11,655.00 | N/A |

| | | | | | |
|--|----------------|----------------|-------------------------|----------------|-----|
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | Per Dielectric estimate | \$6,400.00 | N/A |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00 | \$226,823.00 | N/A | \$226,823.00 | N/A |
| Sub-total | \$675,463.23 | \$608,965.98 | N/A | \$430,302.38 | N/A |
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | N/A | \$3,085,762.81 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Side mount brackets for high power antennas (if not included in antenna base cost) | Component Description: |
| | Die 491038 Aux ant mt brackets pmt 3 v190610jgv1 |
| | Amount: |
| | \$1,121.30 |
| | Component Description: |
| | Die inv #MAN00844 Aux ant mt brackets pmt 1 UL20190226jgv1 |
| | Amount: |
| | \$5,045.85 |
| | Component Description: |
| | Die MAN01086 v190502jgv1 |
| | Amount: |
| | \$5,045.85 |

| | |
|--|--|
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | Information not provided. |
| Sweep test of existing antenna | Information not provided. |
| UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 1000 kW input, directional,, horizontally polarized | <div> <div> Component Description: Amount: </div> <div> Die 491038 Aux ant pmt 3 v190610jgv1 \$15,045.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die inv #MAN00844 Aux ant pmt 1 UL20190226jgv1 \$67,702.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die MAN01086 v190502jgv1 \$67,702.50 </div> </div> |
| Shipping | Information not provided. |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | Information not provided. |
| Reducer | <div> <div> Component Description: Amount: </div> <div> Die 605010 v191217pmv1 \$2,100.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die 568001 v191217pmv3 \$1,155.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die 568001 v190819pmv1 N/A </div> </div> |

| | | | |
|-------------------------|-------------------------------|--|--------------|
| Tower Top Adapter | Component Description: | | Die 568001 |
| | | | v191217pmv3 |
| | Amount: | | \$11,096.25 |
| | | | |
| | Component Description: | | Die 568001 |
| | | | v190819pmv1 |
| | Amount: | | N/A |
| Shipping | Information not provided. | | |
| New Top Plate | Component Description: | | Die MAN01200 |
| | | | v190716pmv1 |
| | Amount: | | \$9,078.75 |
| Antenna Mounting Flange | Component Description: | | SMC 1514 |
| | | | v200205pmv1 |
| | Amount: | | \$1,148.13 |
| Hanger Vert Spring | Component Description: | | Die 568001 |
| | | | v190819pmv1 |
| | Amount: | | N/A |
| | | | |
| | Component Description: | | Die 568001 |
| | | | v191217pmv3 |
| | Amount: | | \$1,194.75 |
| | | | |
| | Component Description: | | Die 568001 |
| | | | v191217pmv3 |
| | Amount: | | (\$2,011.50) |

| | |
|---|---|
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed) | <div> Component Description: Die MAN00948 v190503jgv1</div> <div> Amount: \$3,624.75 </div> |
| | <div> Component Description: Die MAN01200 v190716pmv1</div> <div> Amount: \$4,819.50 </div> |
| | <div> Component Description: Die MAN01200 v190716pmv1</div> <div> Amount: \$945.00 </div> |
| | <div> Component Description: Die 568001 v191217pmv3</div> <div> Amount: \$2,265.75 </div> |
| | <div> Component Description: Die 568001 v190819pmv1</div> <div> Amount: N/A </div> |
| Sweep test of existing antenna | <div> Component Description: Die MAN00948 v190503jgv1</div> <div> Amount: \$2,880.00 </div> |
| | <div> Component Description: Die 620010 v191217pmv1</div> <div> Amount: \$640.00 </div> |
| | <div> Component Description: Die MAN01200 v190716pmv1</div> <div> Amount: \$2,880.00 </div> |

UHF - High Power Top
Mount (200-1000 kW),
One station antenna ,
elliptically or circularly
polarized

Component Description: Die MAN00948
v190503jgv1
Amount: \$102,070.35

Component Description: Die 620010
v191217pmv1
Amount: \$5,760.00

Component Description: Die 607027
v191217pmv1
Amount: \$4,023.00

Component Description: Die MAN01200
v190716pmv1
Amount: \$102,070.35

Component Description: Die 568001
v191217pmv3
Amount: \$12,899.30

Component Description: Die 568001
v190819pmv1
Amount: N/A

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 | \$384,560.00 | \$249,992.00 | | \$244,034.60 | |
| Rigid Transmission Line - copper, 6 1/8" broadband | \$378,160.00 | \$243,592.00 | N/A | \$237,634.60 | N/A |
| TX Line Sweep | <i>\$6,400.00</i> | \$6,400.00 | N/A | \$6,400.00 | N/A |
| Primary Transmission Line | \$501,194.00 | \$304,099.00 | | \$293,616.25 | |
| Misc Parts | <i>\$1,794.00</i> | \$1,794.00 | N/A | \$1,794.00 | N/A |
| TX Line Sweep | <i>\$6,400.00</i> | \$6,400.00 | N/A | N/A | N/A |
| Rigid Transmission Line - copper, 7 3/16" | \$493,000.00 | \$295,905.00 | Per Dielectric quote | \$291,822.25 | N/A |
| Sub-total | \$885,754.00 | \$554,091.00 | N/A | \$537,650.85 | N/A |
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | N/A | \$3,085,762.81 | N/A |

Components

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

Rigid Transmission Line -
copper, 6 1/8" broadband

Component Description: Die 491038 Aux ant
TLSCRs pmt 3
v190610jgv1
Amount: \$812.00

Component Description: Die 491038 Aux
line pmt 3
v190610jgv1
Amount: \$22,951.46

Component Description: Die MAN01086
v190502jgv1
Amount: \$103,281.57

Component Description: Die inv #MAN00844
Aux line pmt 1
UL20190226jgv1
Amount: \$103,281.57

Component Description: Die MAN01086
v190502jgv1
Amount: \$3,654.00

Component Description: Die inv #MAN00844
Aux ant TLSCRs
pmt 1
UL20190226jgv1
Amount: \$3,654.00

| | |
|---------------|--|
| TX Line Sweep | <div> <div> Component Description: Amount: </div> <div> Die inv #MAN00844 Aux ant sweep pmt 1 UL20190226jgv1 \$2,880.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die 491038 Aux ant sweep pmt 3 v190610jgv1 \$640.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die MAN01086 v190502jgv1 \$2,880.00 </div> </div> |
| Misc Parts | <div> <div> Component Description: Amount: </div> <div> Die 600022 v191217pmv1 \$544.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die 592028 v191217pmv1 \$1,250.00 </div> </div> |
| TX Line Sweep | Information not provided. |

Rigid Transmission Line -
copper, 7 3/16"

Component Description: Die MAN00948
v190503jgv1
Amount: \$3,017.25

Component Description: Die MAN00948
v190503jgv1
Amount: \$127,808.21

Component Description: Die 607027
v191217pmv1
Amount: \$447.00

Component Description: Die MAN01200
v190716pmv1
Amount: \$127,808.21

Component Description: Die MAN01200
v190716pmv1
Amount: \$3,017.25

Component Description: Die 568001
v191217pmv3
Amount: \$2,500.00

Component Description: Die 568001
v191217pmv3
Amount: \$27,224.33

Component Description: Die 568001
v190819pmv1
Amount: N/A

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 | \$657,800.00 | \$923,880.00 | | \$592,920.00 | |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | \$26,300.00 | \$25,000.00 | N/A | \$7,400.00 | N/A |
| Major tower reinforcement /modifications | \$421,000.00 | \$400,000.00 | N/A | \$236,304.00 | N/A |
| Tall Tower (greater than 500') | \$210,500.00 | \$498,880.00 | See FDH Stainless Quote P19_T0178_001 in attached /uploaded PDF file titled "FDH SIN000417 v191118jgv1.pdf" | \$349,216.00 | N/A |
| Sub-total | \$657,800.00 | \$923,880.00 | N/A | \$592,920.00 | N/A |
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | N/A | \$3,085,762.81 | N/A |

Components

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

| | |
|---|--|
| Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study | <div> Component Description: Turriss inv #TE-6589 Structural Analysis UL20190402jgv1 </div> <div> Amount: \$7,400.00 </div> <div> Component Description: Turriss TE-6723 v191004pmv1 </div> <div> Amount: \$7,900.00 </div> |
| Major tower reinforcement /modifications | <div> Component Description: FDH E-190668 v200117pmv1 </div> <div> Amount: \$149,664.00 </div> <div> Component Description: Turriss TE-6763 v190619jgv1 </div> <div> Amount: \$86,640.00 </div> |
| Tall Tower (greater than 500') | <div> Component Description: FDH SIN000417 v191118jgv1 </div> <div> Amount: \$49,888.00 </div> <div> Component Description: FDH E-191656 v200205jgv1 </div> <div> Amount: \$299,328.00 </div> |

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 | \$370,316.00 | \$366,871.50 | | \$84,515.52 | |
| Prepare and or review reimbursement form | \$2,630.00 | \$17,521.50 | The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and ongoing Actual Cost invoice prep and submission by KGA. | \$17,521.50 | N/A |

| | | | | | |
|--------------------------------------|--------------------|--------------|---|-------------|-----|
| Project management of the transition | \$134,616.00 | \$127,800.00 | Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x852hrs (\$127800), a new OES component has been created & funded with part of the \$ removed from PM,& "Prepare & or review reimbursement form" has been increased | \$54,059.93 | N/A |
| Other Engineering Services | \$10,800.00 | \$10,800.00 | Fewer PM tasks are needed & OES & 399 work are needed, so the PM total has been reduced to \$150x852hrs (\$127800), a new OES component has been created & funded with part of the \$ removed from PM,& "Prepare & or review reimbursement form" has been increased | \$7,135.00 | N/A |
| Pre filing site review | \$19,000.00 | \$19,000.00 | N/A | N/A | N/A |

| | | | | | |
|--|--------------------|-------------|--|----------|-----|
| Other Legal Services | \$10,000.00 | \$10,000.00 | Other Legal Services related to the DTV Repack | \$424.09 | N/A |
| Additional Field Engineering Service, 20 Days | \$50,000.00 | \$50,000.00 | \$5,400 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services. | N/A | N/A |
| RF Exposure Measurements | \$21,050.00 | \$20,000.00 | Per widelity estimate. | N/A | N/A |
| Comprehensive coverage verification via field study, if needed | \$84,200.00 | \$80,000.00 | Per Widelity estimate | N/A | N/A |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | \$2,105.00 | \$2,000.00 | N/A | \$550.00 | N/A |
| ASR modification (prepare FCC Form 854) | \$2,105.00 | \$2,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|------------|------------|-------------------------|------------|-----|
| Attorney Fees - Prepare and File request for Special Temporary Authorization | \$7,360.00 | \$3,500.00 | Per Widely estimates | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | \$2,365.00 | \$2,250.00 | Per Widely estimate | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | Per Widely estimate | N/A | N/A |
| Prepare request for Special Temporary Authorization | \$4,100.00 | \$3,000.00 | Per Widely estimate | \$1,500.00 | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | \$1,580.00 | \$1,500.00 | Per Widely estimate | \$675.00 | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | Per Widely estimate | \$2,650.00 | N/A |

| | | | | | |
|--|----------------|----------------|-----------------------|----------------|-----|
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | Per Widelity estimate | 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 |
| Sub-total | \$370,316.00 | \$366,871.50 | N/A | \$84,515.52 | N/A |
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | N/A | \$3,085,762.81 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Prepare and or review reimbursement form | Component Description: Osborn 32964 v190617pmv1 |
| | Amount: \$850.00 |
| | Component Description: Osborn 35806 v200221jgv1 |
| | Amount: \$1,175.00 |
| | Component Description: Osborn 31130 v200220jgv1 |
| | Amount: \$250.00 |
| | Component Description: Osborn 36534 v200220jgv1 |
| | Amount: \$3,590.00 |

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|-------------------------------|-----------------------------------|
| Component Description: | Osborn 33858 v200330jgv1 |
| Amount: | \$848.50 |
| Component Description: | Osborn 33858 v200330jgv1 |
| Amount: | \$1,087.50 |
| Component Description: | Osborn 34577R PRRF v191024jgv1 |
| Amount: | \$1,728.00 |
| Component Description: | Osborn 33662 v190618pmv1 |
| Amount: | \$717.50 |
| Component Description: | Osborn 36183 v200220jgv1 |
| Amount: | \$1,045.00 |
| Component Description: | Osborn 34997 v200220jgv1 |
| Amount: | \$3,775.00 |
| Component Description: | Osborn 30001 v200220jgv1 |
| Amount: | \$797.50 |
| Component Description: | Osborn 33846 v200220jgv1 |
| Amount: | \$615.00 |
| Component Description: | Osborn 32197 v200220jgv1 |
| Amount: | \$300.00 |

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|--------------------------------------|---|
| | Component Description: Osborn 35392 v200220jgv1 Amount: \$1,460.00 |
| Project management of the transition | Component Description: Osborn inv #29768 Proj Mgt thru June 29 2018 UL20190227jgv1 Amount: \$3,462.80 Component Description: Inv 29203 WLTX Proj Mgt 180428-180525 UL20180716jg v2 Amount: \$3,575.00 Component Description: Osborn 30479 v200220jgv1 Amount: \$900.00 Component Description: Osborn 35806 v200221jgv1 Amount: \$4,155.16 Component Description: Osborn 31785 v200220jgv1 Amount: \$300.00 Component Description: Osborn 31130 v200220jgv1 Amount: \$750.00 Component Description: Osborn 33662A v191024jgv2 Amount: \$1,275.00 |

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| Component Description: | Osborn 33664 v190618pmv1 |
| Amount: | \$75.00 |

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|-------------------------------|---------------------------------|
| Component Description: | Osborn 34577R PM v191024jgv1 |
| Amount: | \$5,837.23 |

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|-------------------------------|-----------------------------|
| Component Description: | Osborn 34997 v200220jgv1 |
| Amount: | \$3,760.63 |

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|-------------------------------|-----------------------------|
| Component Description: | Osborn 31602 v200220jgv1 |
| Amount: | \$225.00 |

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|-------------------------------|-----------------------------|
| Component Description: | Osborn 32823 v190613pmv1 |
| Amount: | \$1,275.00 |

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| Component Description: | Osborn inv #28580 Proj mgt thru 180330 UL20190326jgv1 |
| Amount: | \$600.00 |

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| Component Description: | Osborn 32964 v190617pmv1 |
| Amount: | \$1,275.00 |

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|-------------------------------|-----------------------------|
| Component Description: | Osborn 36183 v200220jgv1 |
| Amount: | \$6,296.00 |

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| Component Description: | Osborn 33662 v190618pmv1 |
| Amount: | \$1,275.00 |

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|----------------------------|-------------------------------|---|
| | Component Description: | Osborn inv #26022 Prof srvcs 170613 - 170728 UL20181108jg v1 |
| | Amount: | \$13,578.11 |
| | Component Description: | Osborn 35392 v200220jgv1 |
| | Amount: | \$2,370.00 |
| | Component Description: | Osborn 33846 v200220jgv1 |
| | Amount: | \$1,725.00 |
| | Component Description: | Osborn 32197 v200220jgv1 |
| | Amount: | \$525.00 |
| | Component Description: | Osborn 30001 v200220jgv1 |
| | Amount: | \$750.00 |
| | Component Description: | Osborn inv #28990 Proj mgt 180331- 180427 UL20190326jgv1 |
| | Amount: | \$1,350.00 |
| Other Engineering Services | Component Description: | Osborn 35806 v200221jgv1 |
| | Amount: | \$7,135.00 |
| Pre filing site review | Information not provided. | |

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| Other Legal Services | Component Description: Covington 60805585 v190513pmv1 Amount: \$34.53 |
| | Component Description: Covington 60801029 v190712jgv2 Amount: \$144.71 |
| | Component Description: Covington 60801032 v190529jgv2 Amount: \$70.43 |
| | Component Description: Covington 60801029 v190513pmv1 Amount: \$164.44 |
| | Component Description: Covington inv #60796723 Various Legal UL20181024jgv1 Amount: \$174.42 |
| | |
| Additional Field Engineering Service, 20 Days | Information not provided. |
| RF Exposure Measurements | Information not provided. |
| Comprehensive coverage verification via field study, if needed | Information not provided. |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | Component Description: Osborn 36183 v200220jgv1 Amount: \$550.00 |

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| ASR modification (prepare FCC Form 854) | Information not provided. |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | Information not provided. |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | Information not provided. |
| Prepare request for Special Temporary Authorization | Component Description: Osborn 35806 v200221jgv1 Amount: \$1,500.00 |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Component Description: Osborn 35806 v200221jgv1 Amount: \$675.00 |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Component Description: Osborn 32197 v200220jgv1 Amount: \$2,650.00 |
| Perform engineering study for new channel assignment and antenna development | Information not provided. |
| Address transition timing and coordination issues w/ other stations and wireless | 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 | \$137,881.00 | \$137,276.00 | | \$30,816.32 | |
| Develop and air announcement of upcoming channel change | <i>\$6,000.00</i> | \$6,000.00 | 40 hours at \$150 per hour to shoot, write and produce market notification spot. | \$3,270.00 | N/A |
| Equipment Storage | <i>\$15,000.00</i> | \$15,000.00 | Antenna and RF comoponent storage | N/A | N/A |
| Equipment Delivery and Handling Charges | <i>\$25,000.00</i> | \$25,000.00 | N/A | \$22,686.32 | 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 |
| Non-zoning permits | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| Local Zoning | <i>\$900.00</i> | \$900.00 | 3 cents per hundred of value for construction permit. | N/A | N/A |
| FCC Filing Fees - Special Temporary Authorization request | \$195.00 | \$190.00 | 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 |
| FCC Filing Fees - Form 2100 minor change CP application | \$1,110.00 | \$1,070.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$11,000.00 | Per Widelity estimate | \$2,950.00 | N/A |
| Internal labor | \$21,791.00 | \$21,791.00 | N/A | N/A | N/A |
| MVPD Notification of Channel Change | \$6,000.00 | \$6,000.00 | Communication plan to make the MVPD's aware of upcoming changes and testing dates. | \$1,910.00 | N/A |
| Sub-total | \$137,881.00 | \$137,276.00 | N/A | \$30,816.32 | N/A |
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | N/A | \$3,085,762.81 | N/A |

Components

| Actual Information | |
|---|---|
| Description | File Name |
| Develop and air announcement of upcoming channel change | <p>Component Description: 2C Media inv #203806 Creation of channel change announcement UL20181016jgv1</p> <p>Amount: \$3,270.00</p> |
| Equipment Storage | Information not provided. |

| | |
|--|--|
| Equipment Delivery and Handling Charges | Component Description: Die 608014 v191217pmv1 Amount: \$3,511.57 |
| | Component Description: Die 606049 v191217pmv1 Amount: \$450.24 |
| | Component Description: Sunbelt 88321388-0001 v191007pmv1 Amount: \$1,121.61 |
| | Component Description: Die 611037 v200107pmv2 Amount: \$7,590.00 |
| | Component Description: Die 610020 v191217pmv1 Amount: \$9,717.84 |
| | Component Description: Die 601019 v191217pmv1 Amount: \$295.06 |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |
| Non-zoning permits | Information not provided. |
| Local Zoning | Information not provided. |
| FCC Filing Fees - Special Temporary Authorization request | Information not provided. |
| FCC Filing Fees - Form 2100 license to cover application | Information not provided. |

| | |
|---|---|
| FCC Filing Fees - Form 2100 minor change CP application | Information not provided. |
| DTV Medical Facility Notification | <div> <div> Component Description: </div> <div> RF Notif 1190 v190924jgv1 </div> </div> <div> <div> Amount: </div> <div> \$2,950.00 </div> </div> |
| Internal labor | Information not provided. |
| MVPD Notification of Channel Change | <div> <div> Component Description: </div> <div> Osborn 33846 v200220jgv1 </div> </div> <div> <div> Amount: </div> <div> \$1,910.00 </div> </div> |

**Cost
Information**

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$5,097,448.88 | \$5,077,501.86 | \$3,085,762.81 |

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>03/30/2020</p> |

| Certification | Section | Question | Response |
|---------------|--|--|----------|
| | Submission of Actual Cost Documentation Statements | <p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p> | |
| | | <ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. | |

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

| | |
|--|--|
| <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>03/30/2020</p> |

Attachments