



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **62424** | Service: **DTV** | Call **KCDT** | Channel: **18 (UHF)** |
ID: | Sign:
File **0000026396**
Number:
FRN: **0001631738** | Date **02/14**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|---|-----------------------------|--------------------|-------------------|
| STATE BOARD OF EDUCATION, STATE OF IDAHO Doing Business As: IDAHO PUBLIC TELEVISION | Technology Director 1455 NORTH ORCHARD STREET ATTN: RICHARD VAN GENDEREN BOISE, ID 83706 United States | +1 (208) 373- 7220 | Dutch@idahoptv.org | Government Entity |

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 |
|-----------|---------|-------|-------|
|-----------|---------|-------|-------|

| | | | |
|---|--|----------------------|------------------------|
| Richard Van Genderen <i>Director of Technology</i> <i>State Board of Education, State of Idaho</i> <i>dba Idaho Public Television</i> | Director of Technology Idaho Public Television 1455 N. Orchard Street Boise, ID 83706 United States | +1 (208) 373-7220 | dutch@idahoptv. org |
|---|--|----------------------|------------------------|

**Broadcaster
Information
and
Transition
Plan**

| Question | Response |
|--|--|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | Yes |
| Briefly describe transition plan | Install interim Aux.antenna and move KCDT-45 and K26LJ-D over to it at reduced output power. (Requires STA) Then decommission existing KCDT-45 antenna and damaged transmission line. Install new UHF wideband antenna and 3 1/8" rigid line on tower. |

Transmitters

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

**Primary
Transmitter**

Existing Transmitter Information

| Section | Question | Response |
|---|--|-------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter Manufacturer and Type | Manufacturer | |
| | Model | DHD15P1 |
| | Year | 2002 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 3.75 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 | UAXTE-8 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power capacity | 4.8 kW |
| | Justification for New Transmitter | Current transmitter is 15 years old and not re-tuneable to new assigned lower frequency. |

**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 | 1.5 inches |
| | Length | 20.0 feet |
| | | |

| | | |
|--|---|---|
| | Other Electrical Service | Yes |
| | Description | Will have to add a couple of standard 110V circuits for operation of the dual exciters. |
| 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**

| Name | Description |
|------------------------------------|--|
| Stringent Mask filter | New Stringent Mask filter for new channel assignment |
| 2-port UHF channel combiner | A new 2 port UHF channel combiner will be required. We currently utilize one and it is not tuneable to the new assigned 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? | Yes |
| | Is the existing antenna directional? | Yes |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | No |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Broadband Panel |
| | Number of Stations Supported | 2 |
| | Number of Panels | 8 |
| | Design power capacity in use | 60.0 % |
| | Lower Limit | 626.00 MHz |
| | Upper Limit | 806.00 MHz |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 55.0 kW |
| | | |

| | | |
|--|--------------|-------|
| | Manufacturer | |
| | Model | 881-8 |
| | Year | 2002 |

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

| Facility ID | Call Sign |
|-------------|-----------|
| 61953 | K26LJ-D |

**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? | Yes |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Types | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Broadband Panel |
| | Number of Stations Supported | 2 |
| | Number of Panels/Bays | 8 |
| | Lower Limit | 494.00 MHz |
| | Upper Limit | 548.00 MHz |
| | Design power capacity in use | 38.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 36.1 kW |
| | Manufacturer | |
| | Model | TFU8-WB |

| | |
|-------------------------------|--|
| Year | 2018 |
| Justification for New Antenna | Existing antenna is broadband, but for upper UHF frequencies which KCDT will not be authorized to operate on. A new antenna must be employed for the new lower UHF assignment. |

Primary 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 | 2 |
| | Frequencies of channels supported | Upper and lower frequency |
| | Frequency | 494.0 MHz - 548.0 MHz |
| | 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? | Broadband |
| | Feed Line Size | 3 1/8 inches |

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

Primary Antenna

Other Antenna Cost Not Listed

| Name | Description |
|----------------------------------|--|
| Line Adapters | Adapters to go from 3 inch line to 1.5 inch line for proposed aux antenna. |
| Aux.Temp Antenna | Proposed 2 panel medium power light weight antenna array to be used while tower work being performed for new full power antenna. |
| Flexible foam core heliax | To connect Aux/Temp antenna to combiner; 1 5/8" heliax and mounting hardware. |

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 | Flexible Air |
| | Diameter | 3 inches |
| | Other Diameter | N/A |
| | Segment Length | N/A |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 105 feet per run |

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

| Facility ID | Call Sign |
|-------------|-----------|
| 61953 | K26LJ-D |

Primary **New Transmission Line**
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 | 3 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 105 feet per run |
| | Justification for New Transmission Line | Existing line is ice damaged and should be replaced. |

Primary **Other Transmission Line Expenses Not Listed**
Transmission Line

Information not provided.

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 | Flexible Foam |
| | Diameter | 1 5/8 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 75 feet per run |
| | Justification for New Transmission Line | This line will connect auxiliary antenna to existing combiner in the effort to keep signals on the air while new antenna and line are installed on tower. It is smaller since the aux antenna has lower power capacity than full power replacement antenna. |

Interim
Transmission Line

Other Transmission Line Expenses Not Listed

| Name | Description |
|------------------------|--|
| Hangers- Grounding kit | Will require line hangers and 2 grounding kits for this heliax 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 | Move Equipment |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Is this tower consider Complex? | Terrain Constrained |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | No |
| | Others Types of Users | Yes |
| | 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) | 47° 43' 53.66" N- |
| | Longitude (NAD83) | 116° 43' 50.7" W- |
| | Overall Structure Height | 93.00 feet |
| | Support Structure Height | 80.00 feet |
| | | |

| | | |
|--|--|--|
| | Ground Elevation Above Mean Sea Level (AMSL) | 4062.00 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |
| | Tower Owner | Idaho Public Television |
| | Date Constructed | 06/01/1991 |

Other Types of Users

Users

WISP

LPFM x 3

LPTV x 4

Primary Tower

Tower Rigging Costs

| Section | Question | Response |
|------------------------------|-----------------------------------|---------------------|
| Tower Rigging Costs | Complex Tower | Terrain constrained |
| 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? | No |
| | Number of Hours | N/A |
| | Explanation | N/A |
| Outside RF consulting Engineering Services | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| | | |
| Attorney and Other Outside Consulting Services | Prepare and file Form FCC Construction Permit Application | 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 | Yes |
| | Quantity | 1 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | No |
| RF Field Engineering Services | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 4 |
| | Justification | Installation of new transmitter by factory technician. |

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

| Name | Description |
|-------------------------------|--|
| Tower Structural Study | Inventory and structural study of existing and proposed loading with new antennas. |

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 | No |
| | Non-zoning permits | No |
| | BLM or NFS Coordination | Yes |
| | FCC Construction Permit Minor Change | No |
| | FCC License to Cover Application | No |
| | 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 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 UAXTE-8 | \$256,800.00 | \$165,300.00 | | \$0.00 | |
| UHF - Air Cooled Solid State Transmitter 4 - 6 kW | \$236,500.00 | \$145,000.00 | N/A | N/A | N/A |
| 1.5" Rigid Conduit and Wiring | <i>\$800.00</i> | \$800.00 | N/A | N/A | N/A |
| Other Electrical Service: Will have to add a couple of standard 110V circuits for operation of the dual exciters. | <i>\$500.00</i> | \$500.00 | N/A | N/A | N/A |
| 2-port UHF channel combiner | <i>\$13,500.00</i> | \$13,500.00 | N/A | N/A | N/A |
| Stringent Mask filter | <i>\$5,500.00</i> | \$5,500.00 | N/A | N/A | N/A |
| Sub-total | \$256,800.00 | \$165,300.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$1,072,514.00 | \$523,288.00 | N/A | \$33,445.42 | N/A |

Components

Information not provided.

Cost Information

Antennas

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|---------------------|------------------------------|-------------------|---|
| Primary Antenna TFU8-WB | \$197,679.00 | \$149,779.00 | | \$6,453.00 | |
| UHF - High Power, Side Mount, broadband panel, 8 bay,, 36 kW input, directional,, elliptically or circularly polarized | <i>\$49,500.00</i> | \$49,500.00 | N/A | \$554.00 | Quote and Letter attached to most recent submission |
| Flexible foam core heliax | <i>\$1,500.00</i> | \$1,500.00 | N/A | N/A | N/A |
| Aux.Temp Antenna | <i>\$15,000.00</i> | \$15,000.00 | N/A | \$5,899.00 | 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 | N/A | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | \$23,150.00 | \$10,500.00 | N/A | N/A | N/A |

| | | | | | |
|---|-------------------|--------------|-----|-------------|-----|
| Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed) | \$9,340.00 | \$8,880.00 | N/A | N/A | N/A |
| New combiner, cost per channel (without antenna) | \$84,200.00 | \$50,000.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | N/A | N/A |
| Line Adapters | \$2,999.00 | \$2,999.00 | N/A | N/A | N/A |
| Sub-total | \$197,679.00 | \$149,779.00 | N/A | \$6,453.00 | N/A |
| Total for all systems | \$1,072,514.00 | \$523,288.00 | N/A | \$33,445.42 | N/A |

Components

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

| | | | | | | | | | | | | | | | | | |
|---|--|-------------------------------|---|----------------|------------|-------------------------------|---|----------------|------------|-------------------------------|--------------|----------------|---------|-------------------------------|---|----------------|----------|
| <p>UHF - High Power, Side Mount, broadband panel, 8 bay,, 36 kW input, directional,, elliptically or circularly polarized</p> | <table> <tr> <td data-bbox="722 174 1027 208">Component Description:</td><td data-bbox="1163 174 1347 286">Scala FMTV-03 EIA Fine Matching Unit</td></tr> <tr> <td data-bbox="722 297 831 331">Amount:</td><td data-bbox="1163 297 1259 331">\$528.00</td></tr> <tr> <td data-bbox="722 432 1027 465">Component Description:</td><td data-bbox="1163 432 1355 499">Scala 1 5/8" EIA Bullet</td></tr> <tr> <td data-bbox="722 510 831 544">Amount:</td><td data-bbox="1163 510 1244 544">\$26.00</td></tr> <tr> <td data-bbox="722 645 1027 678">Component Description:</td><td data-bbox="1163 645 1303 678">Scala Bullet</td></tr> <tr> <td data-bbox="722 689 831 723">Amount:</td><td data-bbox="1163 689 1244 723">\$26.00</td></tr> <tr> <td data-bbox="722 824 1027 857">Component Description:</td><td data-bbox="1163 824 1362 936">Scala FMTV EIA Fine Matching Unit Connections</td></tr> <tr> <td data-bbox="722 947 831 981">Amount:</td><td data-bbox="1163 947 1259 981">\$528.00</td></tr> </table> | Component Description: | Scala FMTV-03 EIA Fine Matching Unit | Amount: | \$528.00 | Component Description: | Scala 1 5/8" EIA Bullet | Amount: | \$26.00 | Component Description: | Scala Bullet | Amount: | \$26.00 | Component Description: | Scala FMTV EIA Fine Matching Unit Connections | Amount: | \$528.00 |
| Component Description: | Scala FMTV-03 EIA Fine Matching Unit | | | | | | | | | | | | | | | | |
| Amount: | \$528.00 | | | | | | | | | | | | | | | | |
| Component Description: | Scala 1 5/8" EIA Bullet | | | | | | | | | | | | | | | | |
| Amount: | \$26.00 | | | | | | | | | | | | | | | | |
| Component Description: | Scala Bullet | | | | | | | | | | | | | | | | |
| Amount: | \$26.00 | | | | | | | | | | | | | | | | |
| Component Description: | Scala FMTV EIA Fine Matching Unit Connections | | | | | | | | | | | | | | | | |
| Amount: | \$528.00 | | | | | | | | | | | | | | | | |
| Flexible foam core heliax | Information not provided. | | | | | | | | | | | | | | | | |
| Aux.Temp Antenna | <table> <tr> <td data-bbox="722 1193 1027 1227">Component Description:</td><td data-bbox="1163 1193 1362 1305">Scala Broadband Cavity Back Slot Antenna.</td></tr> <tr> <td data-bbox="722 1317 831 1350">Amount:</td><td data-bbox="1163 1317 1279 1350">\$5,899.00</td></tr> <tr> <td data-bbox="722 1451 1027 1485">Component Description:</td><td data-bbox="1163 1451 1362 1563">Scala Broadband Cavity Backslot Antenna</td></tr> <tr> <td data-bbox="722 1574 831 1608">Amount:</td><td data-bbox="1163 1574 1279 1608">\$5,899.00</td></tr> </table> | Component Description: | Scala Broadband Cavity Back Slot Antenna. | Amount: | \$5,899.00 | Component Description: | Scala Broadband Cavity Backslot Antenna | Amount: | \$5,899.00 | | | | | | | | |
| Component Description: | Scala Broadband Cavity Back Slot Antenna. | | | | | | | | | | | | | | | | |
| Amount: | \$5,899.00 | | | | | | | | | | | | | | | | |
| Component Description: | Scala Broadband Cavity Backslot Antenna | | | | | | | | | | | | | | | | |
| Amount: | \$5,899.00 | | | | | | | | | | | | | | | | |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | Information not provided. | | | | | | | | | | | | | | | | |
| Side mount brackets for high power antennas (if not included in antenna base cost) | Information not provided. | | | | | | | | | | | | | | | | |

| | |
|---|---------------------------|
| Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed) | Information not provided. |
| New combiner, cost per channel (without antenna) | Information not provided. |
| Sweep test of existing antenna | Information not provided. |
| Line Adapters | Information not provided. |

Cost
Information

Transmission Line

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|-----------------------------|----------------|--|-------------|---|
| Interim Transmission Line | \$2,550.00 | \$2,475.00 | | \$1,325.00 | |
| Flexible Foam Transmission Line - dielectric, 1 5 /8" | \$1,800.00 | \$1,725.00 | N/A | \$1,325.00 | Quote and Letter attached to most recent submission |
| Hangers-Grounding kit | <i>\$750.00</i> | \$750.00 | N/A | N/A | N/A |
| Primary Transmission Line | \$12,600.00 | \$21,927.00 | | \$0.00 | |
| Rigid Transmission Line - copper, 3 1 /8" broadband | \$12,600.00 | \$21,927.00 | Manufacturer quote, includes hangers and grounding, entry port, etc. | N/A | N/A |
| Sub-total | \$15,150.00 | \$24,402.00 | N/A | \$1,325.00 | N/A |
| Total for all systems | \$1,072,514.00 | \$523,288.00 | N/A | \$33,445.42 | N/A |

Components

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

| | |
|--|--|
| Flexible Foam Transmission Line - dielectric, 1 5/8" | <div> Component Description: Andrew 1 5/8" Virtual Foam Cable </div> <div> Amount: \$655.00 </div> |
| | <div> Component Description: Andrew 1 58" EIA Straight Connector for LDF7 & AVA7 </div> <div> Amount: \$670.00 </div> |
| | <div> Component Description: Andrew Straight Connector for LDF7 & AVA7. Andrew Virtual Foam Cable </div> <div> Amount: \$1,325.00 </div> |
| Hangers- Grounding kit | Information not provided. |
| Rigid Transmission Line - copper, 3 1/8" broadband | Information not provided. |

Cost
Information

Tower Equipment and Rigging Costs

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Primary Tower TOWER | \$421,000.00 | \$55,000.00 | | \$0.00 | |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00 | \$55,000.00 | N/A | N/A | N/A |
| Sub-total | \$421,000.00 | \$55,000.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$1,072,514.00 | \$523,288.00 | N/A | \$33,445.42 | N/A |

Components

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 | \$150,890.00 | \$104,557.00 | | \$20,282.72 | |
| Tower Structural Study | <i>\$10,000.00</i> | \$10,000.00 | N/A | N/A | N/A |
| Additional Field Engineering Service, 4 Days | <i>\$11,500.00</i> | \$11,500.00 | N/A | N/A | N/A |
| RF Exposure Measurements | \$21,050.00 | \$20,000.00 | N/A | N/A | N/A |
| Comprehensive coverage verification via field study, if needed | \$84,200.00 | \$40,000.00 | N/A | \$0.00 | N/A |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | \$3,680.00 | \$3,500.00 | N/A | \$270.00 | N/A |
| Prepare request for Special Temporary Authorization | \$2,050.00 | \$1,500.00 | N/A | \$0.00 | N/A |

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|--|------------|------------|---|------------|---|
| RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application | \$1,580.00 | \$2,047.00 | Increase estimate due to inquiry to seek guidance from FCC regarding new antennae installation | \$2,047.00 | This is for a new auxiliary antenna. |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | \$1,580.00 | \$1,500.00 | N/A | \$0.00 | N/A |
| RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | \$2,105.00 | \$2,000.00 | N/A | \$8,143.62 | Exchanges with antenna manufacturer of proposed replacement antenna for repack. Also construction permit had to be submitted twice. |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,010.00 | The cost of this invoice was over the estimated cost due to clerical costs such as copies and postage | \$3,009.25 | Copy charges more than expected. |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | \$6,767.85 | Need to open transmission line and install testing equipment for engineers. |

| | | | | | |
|---|----------------|--------------|-----|-------------|-----|
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | \$45.00 | N/A |
| Sub-total | \$150,890.00 | \$104,557.00 | N/A | \$20,282.72 | N/A |
| Total for all systems | \$1,072,514.00 | \$523,288.00 | N/A | \$33,445.42 | N/A |

Components

| Actual Information | |
|---|---|
| Description | File Name |
| Tower Structural Study | Information not provided. |
| Additional Field Engineering Service, 4 Days | Information not provided. |
| RF Exposure Measurements | Information not provided. |
| Comprehensive coverage verification via field study, if needed | Information not provided. |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | <div> Component Description: </div> <div> Attorney Fees - Prepare & File Request Amount: \$270.00 </div> |
| Prepare request for Special Temporary Authorization | Information not provided. |

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|---|--|-------------------------------|---|----------------|----------|-------------------------------|---|----------------|------------|
| <p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p> | <table> <tr> <td data-bbox="686 174 1085 448">Component Description:</td><td data-bbox="1085 174 1428 448">Consulting engineering services thru 7/18 - draft of inquiry to seek guidance from FCC regarding new antenna installation</td></tr> <tr> <td data-bbox="686 448 1085 492">Amount:</td><td data-bbox="1085 448 1428 492">\$732.00</td></tr> <tr> <td data-bbox="686 593 1085 1097">Component Description:</td><td data-bbox="1085 593 1428 1097">CONSULTING ENGINEERING SERVICES CONCERNING COMMUNICATON WITH ANTENNA MANUFACTURER AND PREP OF EXHIBITS FOR PRELIMINARY DRAFT OF ENGINEERING STATEMENT</td></tr> <tr> <td data-bbox="686 1097 1085 1142">Amount:</td><td data-bbox="1085 1097 1428 1142">\$1,315.00</td></tr> </table> | Component Description: | Consulting engineering services thru 7/18 - draft of inquiry to seek guidance from FCC regarding new antenna installation | Amount: | \$732.00 | Component Description: | CONSULTING ENGINEERING SERVICES CONCERNING COMMUNICATON WITH ANTENNA MANUFACTURER AND PREP OF EXHIBITS FOR PRELIMINARY DRAFT OF ENGINEERING STATEMENT | Amount: | \$1,315.00 |
| Component Description: | Consulting engineering services thru 7/18 - draft of inquiry to seek guidance from FCC regarding new antenna installation | | | | | | | | |
| Amount: | \$732.00 | | | | | | | | |
| Component Description: | CONSULTING ENGINEERING SERVICES CONCERNING COMMUNICATON WITH ANTENNA MANUFACTURER AND PREP OF EXHIBITS FOR PRELIMINARY DRAFT OF ENGINEERING STATEMENT | | | | | | | | |
| Amount: | \$1,315.00 | | | | | | | | |
| <p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p> | <p>Information not provided.</p> | | | | | | | | |

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| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | <div> Component Description: CONSULTING ENGINEERING SERVICES CONCERNING ITEMS ON REPACK </div> <div> Amount: \$4,172.00 </div> |
| | <div> Component Description: Contact with FCC staff to present transmission line measurement data </div> <div> Amount: \$2,380.00 </div> |
| | <div> Component Description: Engineering statement entitled "Engineering Statement....in support of an application to construct repacked facilities. </div> <div> Amount: \$1,591.62 </div> |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | <div> Component Description: Preparation of forms </div> <div> Amount: \$3,009.25 </div> |

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|---|---|-------------------------------|--|----------------|------------|-------------------------------|---|----------------|------------|-------------------------------|--|----------------|------------|
| <p>Perform engineering study for new channel assignment and antenna development</p> | <table> <tr> <td data-bbox="691 174 997 208">Component Description:</td><td data-bbox="1131 174 1372 365">Opening transmission line and installing testing equipment on the end connector.</td></tr> <tr> <td data-bbox="691 376 799 409">Amount:</td><td data-bbox="1131 376 1251 409">\$1,000.00</td></tr> <tr> <td data-bbox="691 517 997 551">Component Description:</td><td data-bbox="1131 517 1366 622">RF Engineering Consulting Services KCDT</td></tr> <tr> <td data-bbox="691 633 799 667">Amount:</td><td data-bbox="1131 633 1251 667">\$5,767.85</td></tr> <tr> <td data-bbox="691 775 997 808">Component Description:</td><td data-bbox="1131 775 1372 1160">Prepare engineering statement entitled "Engineering Statement...in support of a modification of pending application to construct repacked facilities KCDT...</td></tr> <tr> <td data-bbox="691 1171 799 1205">Amount:</td><td data-bbox="1131 1171 1251 1205">\$2,203.90</td></tr> </table> | Component Description: | Opening transmission line and installing testing equipment on the end connector. | Amount: | \$1,000.00 | Component Description: | RF Engineering Consulting Services KCDT | Amount: | \$5,767.85 | Component Description: | Prepare engineering statement entitled "Engineering Statement...in support of a modification of pending application to construct repacked facilities KCDT... | Amount: | \$2,203.90 |
| Component Description: | Opening transmission line and installing testing equipment on the end connector. | | | | | | | | | | | | |
| Amount: | \$1,000.00 | | | | | | | | | | | | |
| Component Description: | RF Engineering Consulting Services KCDT | | | | | | | | | | | | |
| Amount: | \$5,767.85 | | | | | | | | | | | | |
| Component Description: | Prepare engineering statement entitled "Engineering Statement...in support of a modification of pending application to construct repacked facilities KCDT... | | | | | | | | | | | | |
| Amount: | \$2,203.90 | | | | | | | | | | | | |
| <p>Prepare and or review reimbursement form</p> | <table> <tr> <td data-bbox="691 1346 997 1379">Component Description:</td><td data-bbox="1131 1346 1350 1491">Review repack transition plan progress report for KCDT</td></tr> <tr> <td data-bbox="691 1503 799 1536">Amount:</td><td data-bbox="1131 1503 1214 1536">\$45.00</td></tr> </table> | Component Description: | Review repack transition plan progress report for KCDT | Amount: | \$45.00 | | | | | | | | |
| Component Description: | Review repack transition plan progress report for KCDT | | | | | | | | | | | | |
| Amount: | \$45.00 | | | | | | | | | | | | |

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 | \$30,995.00 | \$24,250.00 | | \$5,384.70 | |
| Equipment Delivery and Handling Charges | <i>\$10,000.00</i> | \$10,000.00 | N/A | \$733.00 | quote and letter attached to most recent submission |
| MVPD Notification of Channel Change | <i>\$500.00</i> | \$500.00 | N/A | \$1,714.40 | The invoice is greater than our initial estimate. Due to state statute we were unable to obtain estimates from a vendor without going thru the entire purchasing process. Which we were unable to do at the time. |
| Develop and air announcement of upcoming channel change | <i>\$1,500.00</i> | \$1,500.00 | N/A | \$332.50 | N/A |

| | | | | | |
|--|-------------------|--------------|---|-------------|-----|
| DTV Medical Facility Notification | \$11,550.00 | \$5,000.00 | N/A | \$2,604.80 | N/A |
| FCC Filing Fees - Special Temporary Authorization request | \$195.00 | \$0.00 | We do not pay filing fees | N/A | N/A |
| BLM or NFS Coordination | \$250.00 | \$250.00 | Cost recovery fee for change of use filing on existing lease. | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$4,500.00 | \$4,500.00 | N/A | N/A | N/A |
| Equipment Storage | \$2,500.00 | \$2,500.00 | N/A | N/A | N/A |
| Sub-total | \$30,995.00 | \$24,250.00 | N/A | \$5,384.70 | N/A |
| Total for all systems | \$1,072,514.00 | \$523,288.00 | N/A | \$33,445.42 | N/A |

Components

| Actual Information Description | File Name |
|---|--|
| Equipment Delivery and Handling Charges | <p>Component Description: Shipping</p> <p>Amount: \$733.00</p> <p>Component Description: Shipping Charges</p> <p>Amount: \$733.00</p> |

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|---|---|
| MVPD Notification of Channel Change | <p>Component Description:</p> <p>MVPD Notification Services: Notification of Cable and Satellite MVPD Providers of new RF Channel and Transport Stream Parameters on Repack Channel</p> <p>Amount:</p> <p>\$1,714.40</p> |
| Develop and air announcement of upcoming channel change | <p>Component Description:</p> <p>Attachment includes cover letter that was requested by the reviewer. Upcoming Channel Change Announcement. Only \$332.50 of the total charges are related to the upcoming channel change announcement. Other charges are programming related.</p> <p>Amount:</p> <p>\$332.50</p> |
| DTV Medical Facility Notification | <p>Component Description:</p> <p>This is for the Notification of Medical Facilities - Transmitter Medical Facility Notification</p> <p>Amount:</p> <p>\$2,604.80</p> |
| FCC Filing Fees - Special Temporary Authorization request | Information not provided. |
| BLM or NFS Coordination | Information not provided. |

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|--|---------------------------|
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |
| Equipment Storage | Information not provided. |

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|-----------------------------|------------------------------|--|-----------------------|
| Cost Information | Grand Total | | |
| | | Predetermined Cost Estimate | Estimated Cost |
| | | | Actual Cost |
| | Total for all systems | \$1,072,514.00 | \$523,288.00 |
| | | | \$33,445.42 |

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

| Certification | Section | Question | Response |
|---------------|---|---|----------|
| | Submission of Estimated Expenses Statements | <p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p> | |
| | | <ol style="list-style-type: none"> 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>Dawn Rose <i>Senior Financial Specialist</i></p> <p>02/14/2019</p> |

Attachments