Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: **64033** | Service: **DTV** | Call Sign: **WPCH-TV** | Channel: **31 (UHF)**

File Number: **0000028397**

FRN: **0018223693** | Date Submitted: **07/12/2017**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---|---|---|---|---|
| **MEREDITH CORPORATION**<br>Doing Business As: MEREDITH CORPORATION | Joshua N. Pila<br>425 14th Street NW<br>Atlanta, GA 30318<br>United States | +1 (404) 327-3286 | RegAffairs@meredith.com | Corporation |

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

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

## Preparer Contact Information

### Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---|---|---|---|
| The Preparer is same as the reimbursement contact. | | | |

## Broadcaster Information and Transition Plan

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

| | |
|---|---|
| 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 | The WPCH repack plan includes the replacement of main transmitter, cost of a shared antenna. A AUX transmitter and transitional system. It also includes all the analysis, engineering evaluation and electrical systems. |

## 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 | Thompson DCX3 |
| | Year | 2002 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Three |
| | Power Capacity | 53 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 | HPTV-PRLX-U42 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 65 kW |
| | Justification for New Transmitter | The current transmitter cannot be retuned. The proposed transmitter is a solid state unit and is planned for a power level to support an elliptical antenna. I have included both a cost comparison for solid state and a new IOT. |

**Primary Transmitter**

### Other Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **Electrical Service** | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | Yes |
| | Transformer (480V) | No |
| | Power | N/A |
| | Rigid Conduit and Wiring | Yes |
| | Size | 2 inches |
| | Length | 500.0 feet |
| | Other Electrical Service | No |
| | Description | N/A |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | Yes |
| | Type | Cooling Only |
| | Size | 10 tons |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | Yes |
| | Size | 1000.0 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 |
|---|---|
| **Electrical sub-panels** | Needed to for new power distribution |

## Interim Transmitter

### New Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New Transmitter** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase |
| | Manufacturer | |
| | Model | Parallax HPTV-PRLX-U42 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 65 kW |
| | Justification for New Transmitter | Due to construction of primary site a interim facility needs to be built. |

## Interim Transmitter

### Other Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **Electrical Service** | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | Yes |
| | Transformer (480V) | No |
| | Power | N/A |
| | Rigid Conduit and Wiring | Yes |
| | Size | 2 inches |
| | Length | 500.0 feet |
| | | |

| | | |
|---|---|---|
| | Other Electrical Service | No |
| | Description | N/A |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | Yes |
| | Type | Cooling Only |
| | Size | 10 tons |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | Yes |
| | Size | 1000.0 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 |
| **Inside RF System** | Is an additional interior RF system required to support this interim transmitter? | No |

## Interim Transmitter

### Other Transmitter Cost Not Listed

| Name | Description |
|---|---|
| **Sub panels** | Sub panels to supply power to transmitter |

## 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 | Leased |
| | Owner | ATC |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | Yes |
| | Is the existing antenna directional? | No |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | Yes |
| **Existing Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Top |
| | Polarization | Horizontal |
| | Type | Broadband Panel |
| | Number of Stations Supported | 4 |
| | Number of Panels | 12 |
| | Design power capacity in use | 100.0 % |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 698.00 MHz |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 805.0 kW |
| | | |

| | |
|---|---|
| Manufacturer | |
| Model | RFS PEPL48D-C170-2-6 12 bay |
| Year | 2017 |

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

| Facility ID | Call Sign |
|---|---|
| 22819 | WATL |
| 72120 | WGCL-TV |
| 168812 | WANN-CD |

## 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 | Leased |
| | Owner | AMT |
| | Is antenna shared? | Yes |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | Yes |
| **New Antenna Manufacturer and Types** | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Circular |
| | Type | Broadband Panel |
| | Number of Stations Supported | 7 |
| | Number of Panels/Bays | 12 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 698.00 MHz |
| | Design power capacity in use | 100.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 805.0 kW |
| | Manufacturer | |

| | | |
|---|---|---|
| | Model | RFS PEPL48D-C170-2-6 12 bay |
| | Year | 2017 |
| | Justification for New Antenna | The lease holder is forcing an antenna change to elliptical antenna system |

## 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 | 6 |
| | Frequencies of channels supported | RF channel |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | No |
| **Elbow Complex** | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | Broadband |
| | Feed Line Size | 8 3/16 inches inches |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for a high power antenna? | No |
| **Pattern Scatter Analysis** | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |

| | | |
|---|---|---|
| **Sweep Test** | Do you require the sweep testing of transmission line and antenna? | Yes |

### Enter a list of RF channel numbers.

| RF Channel Number |
|---|
| 37 |
| 19 |
| 20 |

## Primary Antenna

### Other Antenna Cost Not Listed

| Name | Description |
|---|---|
| **Combiner installation** | Installation costs for installing new combiner |

## Interim Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Lease New |
| | Ownership | Leased |
| | Owner | AMT |
| | Is antenna shared? | Yes |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| **New Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Broadband Panel |
| | Number of Stations Supported | 4 |
| | Number of Panels/Bays | 12 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 698.00 MHz |
| | Design power capacity in use | 100.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 805.0 kW |
| | Manufacturer | |
| | Model | RFS PEPL48D-C170-2-6 12 bay |
| | | |

| | | |
|---|---|---|
| | Year | 2017 |
| | Justification for New Antenna | New antenna is being constructed as part of shared antenna system by lease holder |

**Interim Antenna**

### Other Antenna Costs

| Section | Question | Response |
|---|---|---|
| **Combiner for Shared Antenna** | Do you need a Combiner for a Shared Antenna? | Yes |
| | Type | New |
| | Number of channels supported | 4 |
| | Frequencies of channels supported | RF channel |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | No |
| **Elbow Complex** | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | B |
| | Feed Line Size | 8 3/16 inches |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for an antenna? | No |
| **Pattern Scatter Analysis** | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |
| **Sweep Test** | Do you require the sweep testing of transmission line and antenna? | Yes |

### Enter a list of RF channel numbers.

| RF Channel Number |
| --- |
| 48 |
| 20 |
| 31 |
| 43 |

## Interim Antenna

### Other Antenna Cost Not Listed

| Name | Description |
| --- | --- |
| **Combiner installation** | Installation of combiner at new site |

## 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 | Leased |
| | Owner | AMT |
| | Site | N/A |
| | Is the existing transmission line shared with another station or stations? | Yes |
| | Is Transmission Line in operating condition? | Yes |
| **Existing Transmission Line Manufacturer and Type** | Manufacturer | |
| | Type | Rigid |
| | Diameter | 8 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1225 feet per run |

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

| Facility ID | Call Sign |
|---|---|
| 70689 | WAGA-TV |
| 72120 | WGCL-TV |

## Primary Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Type | Rigid |
| | Diameter | 8 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1200 feet per run |
| | Justification for New Transmission Line | A new line is needed for the new broadband antenna |

## Primary Transmission Line

### Other Transmission Line Expenses Not Listed

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 | Lease New |
| | Type | Rigid |
| | Diameter | 8 3/16 inches |
| | Segment Length | Broadband |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1225 feet per run |
| | Justification for New Transmission Line | A new line is required for updated installation |

## Interim Transmission Line

### Other Transmission Line Expenses Not Listed

Information not provided.

## Tower Equipment And Rigging Costs

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

## Auxiliary Tower

### Add Tower

| Section | Question | Response |
|---|---|---|
| **Existing Tower Description** | Type of change | Modify Existing |
| | Tower Use | Auxiliary (Backup) |
| | Description of Use | Tower will be used for Interim |
| | Ownership | Leased |
| | Is this tower consider Complex? | Candelabra |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | Is tower documented for structural analysis? | No |
| | Is tower compliant with Rev G? | Yes |
| **Existing Tower Structure Registration** | Do you have a tower registration number? | Yes |
| | ASR Number | 1206253 |
| **Coordinates (NAD83 ( North American Datum of 1983))** | Latitude (NAD83) | 33° 44' 40.9" N- |
| | Longitude (NAD83) | 084° 21' 35.7" W- |
| | Overall Structure Height | 1080.04 feet |
| | Support Structure Height | 956.03 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 969.15 feet |
| | Structure Type | GTOWER - |

| | | |
|---|---|---|
| | | Guyed Structure Used for Communication Purposes |
| | Tower Owner | American Towers, LLC |
| | Date Constructed | 05/14/2002 |

**FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared**

| Facility ID | Call Sign | Service |
|---|---|---|
| 70689 | WAGA-TV | DTV |

**Auxiliary Tower**

**Tower Modification Costs**

| Section | Question | Response |
|---|---|---|
| **Engineering Study** | Please what type of engineering study is required, if any: | Study needed for tower with candelabra |
| **Tower Reinforcements** | Please select whether tower reinforcements are needed: | Minor Reinforcements needed |

**Auxiliary Tower**

**Tower Rigging Costs**

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

## Auxiliary Tower

### Other Tower Expenses Not Listed

| Name | Description |
| --- | --- |
| **Ground and building permit prep** | A drawing package is required for ground permits |
| **Tower permit prep** | A drawing package is required for tower permits |

## Primary Tower

### Existing Tower

| Section | Question | Response |
|---|---|---|
| **Existing Tower Description** | Type of change | Modify Existing |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Leased |
| | Is this tower consider Complex? | Candelabra |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | Is tower documented for structural analysis? | No |
| | Is tower compliant with Rev G? | Yes |
| **Existing Tower Structure Registration** | Do you have a tower registration number? | Yes |
| | ASR Number | 1223132 |
| **Coordinates (NAD83 ( North American Datum of 1983))** | Latitude (NAD83) | 33° 48' 26.4" N- |
| | Longitude (NAD83) | 084° 20' 21.5" W- |
| | Overall Structure Height | 1182.07 feet |
| | Support Structure Height | 1056.09 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 867.12 feet |
| | Structure Type | GTOWER - Guyed Structure Used for Communication Purposes |
| | Tower Owner | American Tower, LLC |
| | Date Constructed | 03/27/2002 |

### FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

| Facility ID | Call Sign | Service |
|---|---|---|
| 72120 | WGCL-TV | DTV |
| 70689 | WAGA-TV | DTV |

**Primary Tower**

### Tower Modification Costs

| Section | Question | Response |
|---|---|---|
| **Engineering Study** | Please what type of engineering study is required, if any: | Study needed for tower with candelabra |
| **Tower Reinforcements** | Please select whether tower reinforcements are needed: | Minor Reinforcements needed |

**Primary Tower**

### Tower Rigging Costs

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

**Primary Tower**

### Other Tower Expenses Not Listed

| Name | Description |
|---|---|
| **Tower permit drawing** | The generation of a drawing to support permitting |
| **Ground and permit planning** | The cost is for a drawing package and planning for Tower permit |

## Outside Professional Services Costs

| Section | Question | Response |
|---|---|---|
| **Outside Project Management Services** | Do you require outside project management services? | Yes |
| | Number of Hours | 20 |
| | Explanation | Outside project management is required due to staff size. |
| **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 | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |

| | | |
|---|---|---|
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | Yes |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| **RF Field Engineering Services** | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | No |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |
| | Justification | N/A |

## Outside Professional Services Costs

### Other Professional Services Expenses Not Listed

| Name | Description |
|---|---|
| **RF system test** | Test of combiner at Interim site |
| **Engineering study for new channel and antenna development** | Engineering study required by lease holder at Primary site |
| **Engineering study for new channel and antenna development** | Engineering study required by lease holder at Interim site |
| **RF system test** | Test of combiner at Primary site |

| | |
|---|---|
| **Comark site survey and site design** | A survey to review and design transmitter installation |

## 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 | 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)? | No |
| | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | Yes |
| | Does this relocation require Equipment Storage? | No |
| | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change? | No |
| | Does this relocation require MVPD Notification of a Channel Change? | No |

## Other Expenses

### Other Expenses Not Listed

| Name | Description |
| --- | --- |
| **ATC one time tower rental during repack** | One time lease cost at Interim site |

## 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 |
|---|---|---|---|---|---|
| **Interim Transmitter Parallax HPTV-PRLX-U42** | **$1,832,117.00** | **$1,827,817.00** | | **$0.00** | |
| Sub panels | ***$3,700.00*** | $3,700.00 | New subpanels are required for the new installation | N/A | N/A |
| 10 Ton system | $38,900.00 | $37,000.00 | N/A | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 65 kW | ***$1,708,317.00*** | $1,708,317.00 | The transmitter is being built out at new site at full power | N/A | N/A |
| Other -- Building Addition Size: 1000.0 | ***$30,000.00*** | $30,000.00 | Building modification to support new location | N/A | N/A |
| Switchgear - industrial 800 amp | $38,200.00 | $36,300.00 | N/A | N/A | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | $13,000.00 | $12,500.00 | N/A | N/A | N/A |
| **Primary Transmitter HPTV-PRLX-U42** | **$1,832,117.00** | **$1,827,817.00** | | **$0.00** | |
| 2" Rigid Conduit and Wiring (Cost per foot) | $13,000.00 | $12,500.00 | N/A | N/A | N/A |
| UHF - Liquid | ***$1,708,317.00*** | $1,708,317.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Cooled Solid State Transmitter 65 kW | | | | | |
| Switchgear - industrial 800 amp | $38,200.00 | $36,300.00 | N/A | N/A | N/A |
| 10 Ton system | $38,900.00 | $37,000.00 | N/A | N/A | N/A |
| Other -- Building Addition Size: 1000.0 | ***$30,000.00*** | $30,000.00 | space reallocation requires some remodeling | N/A | N/A |
| Electrical sub-panels | ***$3,700.00*** | $3,700.00 | New Sub panels are required for installation | N/A | N/A |
| **Sub-total** | $3,664,234.00 | $3,655,634.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | N/A | $0.00 | 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 |
|---|---|---|---|---|---|
| **Interim Antenna RFS PEPL48D-C170-2-6 12 bay** | **$1,207,380.00** | **$190,593.00** | | **$0.00** | |
| Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed) | $18,950.00 | $5,400.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $2,500.00 | N/A | N/A | N/A |
| New combiner, cost per channel (without antenna) | $84,200.00 | $52,500.00 | N/A | N/A | N/A |
| Combiner installation | ***$7,500.00*** | $7,500.00 | N/A | N/A | N/A |
| UHF - High Power Top Mount (200-1000 kW), Four Station broadband panel antenna, elliptically or circularly polarized | $1,090,000.00 | $122,693.00 | N/A | N/A | N/A |
| **Primary Antenna RFS PEPL48D-C170-2-6 12 bay** | **$240,073.00** | **$190,593.00** | | **$0.00** | |
| Combiner installation | ***$7,500.00*** | $7,500.00 | N/A | N/A | N/A |
| UHF - High Power Top | ***$122,693.00*** | $122,693.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Mount Seven Station broadband panel antenna elliptically or circularly polarized | | | | | |
| New combiner, cost per channel (without antenna) | $84,200.00 | $52,500.00 | N/A | N/A | N/A |
| Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed) | $18,950.00 | $5,400.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $2,500.00 | N/A | N/A | N/A |
| **Sub-total** | $1,447,453.00 | $381,186.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | N/A | $0.00 | N/A |

## Components

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** | **$488,775.00** | **$107,616.00** | | **$0.00** | |
| Rigid Transmission Line - copper, 8 3/16" broadband | $488,775.00 | $107,616.00 | N/A | N/A | N/A |
| **Primary Transmission Line** | **$478,800.00** | **$107,616.00** | | **$0.00** | |
| Rigid Transmission Line - copper, 8 3/16" broadband | $478,800.00 | $107,616.00 | N/A | N/A | N/A |
| **Sub-total** | $967,575.00 | $215,232.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | N/A | $0.00 | N/A |

### Components

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 |
|---|---|---|---|---|---|
| **Auxiliary Tower GTOWER** | **$608,400.00** | **$126,770.00** | | **$0.00** | |
| Structural engineering tower load study for a documented tower with candelabra | $20,000.00 | $8,870.00 | N/A | N/A | N/A |
| Ground and building permit prep | ***$4,700.00*** | $4,700.00 | N/A | N/A | N/A |
| Complex Tower (includes, for example, those with candelabras and /or stacked antennas) | $421,000.00 | $105,000.00 | N/A | N/A | N/A |
| Minor tower reinforcement /modifications | $158,000.00 | $3,500.00 | N/A | N/A | N/A |
| Tower permit prep | ***$4,700.00*** | $4,700.00 | N/A | N/A | N/A |
| **Primary Tower GTOWER** | **$608,400.00** | **$158,270.00** | | **$0.00** | |
| Complex Tower (includes, for example, those with candelabras and /or stacked antennas) | $421,000.00 | $105,000.00 | N/A | N/A | N/A |
| Minor tower reinforcement | $158,000.00 | $35,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| /modifications | | | | | |
| Structural engineering tower load study for a documented tower with candelabra | $20,000.00 | $8,870.00 | N/A | N/A | N/A |
| Ground and permit planning | ***$4,700.00*** | $4,700.00 | N/A | N/A | N/A |
| Tower permit drawing | ***$4,700.00*** | $4,700.00 | N/A | N/A | N/A |
| **Sub-total** | $1,216,800.00 | $285,040.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | N/A | $0.00 | 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** | **$155,475.00** | **$151,545.00** | | **$0.00** | |
| Comark site survey and site design | ***$15,300.00*** | $15,300.00 | N/A | N/A | N/A |
| Engineering study for new channel and antenna development | ***$5,000.00*** | $5,000.00 | N/A | N/A | N/A |
| RF system test | ***$5,000.00*** | $5,000.00 | N/A | N/A | N/A |
| Comprehensive coverage verification via field study, if needed | $84,200.00 | $79,995.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | $3,680.00 | $7,000.00 | N/A | N/A | N/A |
| Attorney Fees - Negotiation of lease and other matters for shared locations | $4,210.00 | $4,000.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | $2,365.00 | $2,250.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application | $4,210.00 | $4,000.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | $5,260.00 | $5,000.00 | N/A | N/A | N/A |
| Prepare request for Special Temporary Authorization | $2,050.00 | $3,000.00 | N/A | N/A | N/A |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application | $1,580.00 | $1,500.00 | N/A | N/A | N/A |
| Prepare and or review reimbursement form | $2,630.00 | $2,500.00 | N/A | N/A | N/A |
| Project management of the transition | $3,160.00 | $3,000.00 | N/A | N/A | N/A |
| Address transition timing and coordination issues w/ other stations and wireless | $2,630.00 | $2,500.00 | N/A | N/A | N/A |
| Perform engineering study for new | $7,360.00 | $5,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| channel assignment and antenna development | | | | | |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | $3,155.00 | $3,000.00 | N/A | N/A | 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 | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | $1,580.00 | $1,500.00 | N/A | N/A | N/A |
| **Sub-total** | $155,475.00 | $151,545.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | N/A | $0.00 | N/A |

### Components

Information not provided.

## Cost Information

### Other Expenses

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Other Expenses** | **$84,040.00** | **$79,828.00** | | **$0.00** | |
| DTV Medical Facility Notification | $11,550.00 | $7,393.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | ***$12,500.00*** | $12,500.00 | N/A | N/A | N/A |
| ATC one time tower rental during repack | ***$57,600.00*** | $57,600.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 minor change CP application | $1,110.00 | $1,070.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 license to cover application | $335.00 | $325.00 | N/A | N/A | N/A |
| FCC Filing Fees - Special Temporary Authorization request | $195.00 | $190.00 | N/A | N/A | N/A |
| Non-zoning permits | ***$750.00*** | $750.00 | N/A | N/A | N/A |
| **Sub-total** | $84,040.00 | $79,828.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | N/A | $0.00 | N/A |

### Components

Information not provided.

## Cost Information

### Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|---|---|---|---|
| **Total for all systems** | $7,535,577.00 | $4,768,465.00 | $0.00 |

## 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** | WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT. | |
| | 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.<br>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.<br>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.<br>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).<br>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.<br>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.<br>7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.<br>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested. | |
| I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above. | **Larence K. Oaks** |

| | | |
|---|---|---|
| | | *Vice President of Technology Meredith Corp*<br><br>07/12/2017 |

## Attachments