



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **51984** | Service: **DTV** | Call **WPPX-TV** | Channel: **34 (UHF)** |
ID: | Sign: |
File **0000028672**
Number: |
FRN: **0001808468** | Date **03/08**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|-----------------------------|--------------------------------|----------------|
| ION MEDIA PHILADELPHIA LICENSE, INC. Doing Business As: ION MEDIA PHILADELPHIA LICENSE, INC. | Michael Hubner 810 Seventh Avenue 31st Floor New York, NY 10019 United States | +1 (212) 603- 8407 | MichaelHubner@ionmedia. com | Corporation |

Reimbursement Contact Name and Information

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

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. | Yes |
| Briefly describe transition plan | Relocate operations from ASR# 1231524 to ASR# 1023152. Install and operate from shared-interim antenna utilizing new transmitter. Build Post-Repack facilities utilizing new side-mount antenna, transmission line, and transmitter. |

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 | Ultimate |
| | Year | 2003 |
| | Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power Capacity | 10 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? | No |
| | Manufacturer | |
| | Model | THU9-10 EVO |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 15.5 kW |
| | Justification for New Transmitter | See attached Ultimate and Optimum Transmitter Exhibit. |

**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 | No |
| | Size | N/A |
| | Length | N/A |
| | | |

| | | |
|--|---|---|
| | Other Electrical Service | Yes |
| | Description | Electrical Installation for replacement transmitter |
| HVAC Service | Does the replacement transmitter require HVAC Service? | Yes |
| | Type | Cooling Only |
| | 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 | 144.0 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 Interconnect | Interconnect between RF System and transmission line |
| Removal of Existing Equipment | Removal of existing transmitters and equipment / Site Prep |

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 | Bottom |
| | 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) | 200.0 kW |
| | | |

| | |
|--------------|-------------------------|
| Manufacturer | |
| Model | TFU- 20DSC-R P230 |
| Year | 2004 |

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? | Yes |
| New Antenna Manufacturer and Types | Class | Full Power |
| | Mounting | Side 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) | 213.0 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|--|
| Model | TFU-20DSC /VP-R P230 |
| Year | 2018 |
| Justification for New Antenna | Current slot antenna cannot be re-channelled |

Primary Antenna

Other Antenna Costs

| Section | Question | Response |
|------------------------------------|---|------------------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | No |
| | Type | |
| | Number of channels supported | N/A |
| | Frequencies of channels supported | N/A |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | N/A |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | Single Channel |
| | Feed Line Size | 6 1/8 inches 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 Information not provided. |
|--------------------|--|
|--------------------|--|

**Interim
Antenna**

New Antenna Costs

| Section | Question | Response |
|--|--|-------------------|
| New Antenna Description | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | Yes |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | Yes |
| New Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Broadband Slot |
| | Number of Stations Supported | 2 |
| | Number of Panels/Bays | 24 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 698.00 MHz |
| | Design power capacity in use | 95.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 210.0 kW |
| | Manufacturer | |
| | Model | TFU-WB-24 |
| | Year | 2018 |
| | | |

| | | |
|--|-------------------------------|--|
| | Justification for New Antenna | Shared-interim antenna needed to complete move to new channel. |
|--|-------------------------------|--|

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 | 2 |
| | Frequencies of channels supported | RF channel |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | No |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | B |
| | Feed Line Size | 6 1/8 inches |
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for an antenna? | No |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |
| Sweep Test | Do you require the sweep testing of transmission line and antenna? | Yes |

Enter a list of RF channel numbers.

RF Channel Number

34

31

32

33

**Interim
Antenna**

Other Antenna Cost Not Listed

Information not provided.

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 | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1261 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 | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1250 feet per run |
| | Justification for New Transmission Line | See attached Transmission Line Exhibit. |

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

| Name | Description |
|----------------------------------|----------------------------------|
| Sweep existing transmission line | Sweep existing transmission line |

Interim **New Transmission Line**
Transmission Line

| Section | Question | Response |
|------------------------------------|---|---|
| New Transmission Line Costs | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Segment Length | Broadband |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1225 feet per run |
| | Justification for New Transmission Line | Broadband Interim Transmission Line needed to combine channels into Shared-Interim Broadband Antenna. |

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

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Add 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? | No |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | Is tower documented for structural analysis? | Unknown |
| | Is tower compliant with Rev G? | Unknown |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1023152 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 40° 02' 39.0" N- |
| | Longitude (NAD83) | 075° 14' 25.0" W- |
| | Overall Structure Height | 1116.13 feet |
| | Support Structure Height | 1112.85 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 252.29 feet |

| | | |
|--|------------------|--|
| | Structure Type | TOWER - Free Standing or Guyed Structure |
| | Tower Owner | ABC INC DBA = WPVI-TV |
| | Date Constructed | 01/01/1957 |

**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 |
|-------------|-----------|---------|
| 8616 | WPVI-TV | DTV |
| 25453 | KYW-TV | DTV |
| 12499 | WPSG | DTV |

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.

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 | Leased |
| | Is this tower consider Complex? | Candelabra |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | Is tower documented for structural analysis? | Unknown |
| | Is tower compliant with Rev G? | No |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1231524 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 40° 02' 30.1" N- |
| | Longitude (NAD83) | 075° 14' 10.1" W- |
| | Overall Structure Height | 1254.91 feet |
| | Support Structure Height | 1124.00 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 292.98 feet |
| | Structure Type | GTOWER - Guyed Structure Used for Communication Purposes |
| | | |

| | | |
|--|------------------|---|
| | Tower Owner | Global Tower, LLC. through American Towers, LLC |
| | Date Constructed | 11/02/2011 |

**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 |
|-------------|-----------|---------|
| 65190 | WRTI | FM |
| 12499 | WPSG | DTV |
| 1283 | KJWP | DTV |
| 28480 | WYBE | DTV |
| 12211 | WPPZ-FM | FM |
| 30572 | WPHI-FM | FM |
| 55305 | WTVE | DTV |
| 9622 | WOGL | FM |
| 28628 | WIP-FM | FM |
| 74213 | WXTU | FM |
| 60560 | WUVP-DT | DTV |
| 63153 | WCAU | DTV |
| 7623 | WGTW-TV | DTV |
| 72278 | WPHA-CD | DTV |
| 74216 | WFPA-CD | DTV |

**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

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 | 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 | 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 | 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 | 1 |
| | 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 | 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 | Yes |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |
| | Justification | N/A |

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

If wireless is not provided.

Other Expenses

| Section | Question | Response |
|-------------------------------------|--|----------|
| AM Pattern Disturbance | Is an Impact Study needed? | Yes |
| | 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 | No |
| | 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 |
|---|--|
| Obtain building permits from local zoning authorities | The cost of preparation and submission of the needed forms for permits, on behalf of the three broadcasters for jurisdictional permits, required for electrical, building and required tasks assoc with the install of the the equip in the transmitter spaces |

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 THU9-10 EVO | \$788,525.00 | \$489,759.54 | | \$116,604.16 | |
| Other -- Building Addition Size: 144.0 | <i>\$9,275.00</i> | \$9,275.00 | See attached APCON Quote #01 for 12' x 12' (144 sq ft) building addition. | \$9,275.00 | N/A |
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | \$684,000.00 | \$386,234.54 | See attached Rohde & Schwarz Transmitter Quotes & Breakdown #01 | \$107,329.16 | N/A |
| Removal of Existing Equipment | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| RF Interconnect | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| 5 Ton system | \$20,250.00 | \$19,250.00 | N/A | N/A | N/A |
| Other Electrical Service: Electrical Installation for replacement transmitter | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |

| | | | | | |
|------------------------------|----------------|----------------|-----|--------------|-----|
| Sub-total | \$788,525.00 | \$489,759.54 | N/A | \$116,604.16 | N/A |
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | N/A | \$405,582.36 | N/A |

Components

| Actual Information | |
|---|---|
| Description | File Name |
| Other -- Building Addition Size: 144.0 | <p>Component Description: Cost of concrete pads for placement of heat exchangers next to transmitter building. Supporting documentation attached. This invoice has been paid.</p> <p>Amount: \$9,275.00</p> |

| | | | | | | | | | |
|--|--|-------------------------------|---|----------------|-------------|-------------------------------|--|----------------|-------------|
| <p>UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW</p> | <table> <tr> <td data-bbox="710 168 1013 212">Component Description:</td><td data-bbox="1149 168 1380 638"> Cots of additional requested installation material or services and Dielectric parts for the antenna line after switch. Supporting documentation attached. This invoice has been paid. </td></tr> <tr> <td data-bbox="710 649 821 694">Amount:</td><td data-bbox="1149 649 1284 694">\$17,804.04</td></tr> <tr> <td data-bbox="710 784 1013 828">Component Description:</td><td data-bbox="1149 784 1364 1142"> 25% "down payment" for Rohde & Schwarz transmitter. Supporting documentation attached. This invoice has been paid. </td></tr> <tr> <td data-bbox="710 1153 821 1198">Amount:</td><td data-bbox="1149 1153 1284 1198">\$89,525.12</td></tr> </table> | Component Description: | Cots of additional requested installation material or services and Dielectric parts for the antenna line after switch. Supporting documentation attached. This invoice has been paid. | Amount: | \$17,804.04 | Component Description: | 25% "down payment" for Rohde & Schwarz transmitter. Supporting documentation attached. This invoice has been paid. | Amount: | \$89,525.12 |
| Component Description: | Cots of additional requested installation material or services and Dielectric parts for the antenna line after switch. Supporting documentation attached. This invoice has been paid. | | | | | | | | |
| Amount: | \$17,804.04 | | | | | | | | |
| Component Description: | 25% "down payment" for Rohde & Schwarz transmitter. Supporting documentation attached. This invoice has been paid. | | | | | | | | |
| Amount: | \$89,525.12 | | | | | | | | |
| <p>Removal of Existing Equipment</p> | <p>Information not provided.</p> | | | | | | | | |
| <p>RF Interconnect</p> | <p>Information not provided.</p> | | | | | | | | |
| <p>5 Ton system</p> | <p>Information not provided.</p> | | | | | | | | |
| <p>Other Electrical Service: Electrical Installation for replacement transmitter</p> | <p>Information not provided.</p> | | | | | | | | |

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-WB-24 | \$277,648.00 | \$253,858.00 | | \$171,178.20 | |
| UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 210 kW input, directional,, elliptically or circularly polarized | <i>\$173,018.00</i> | \$173,018.00 | See attached Dielectric Quote #700481CMZ. | \$155,716.20 | N/A |
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) | \$13,700.00 | \$10,780.00 | See attached Dielectric Quote #700481CMZ. | \$9,702.00 | N/A |
| New combiner, cost per channel (without antenna) | \$84,200.00 | \$63,660.00 | See attached Dielectric Quote #800055CMZ. | N/A | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | See attached Dielectric Quote #700481CMZ. | \$5,760.00 | N/A |

| | | | | | |
|---|---------------------|---------------------|--|---------------|-----|
| Primary Antenna TFU-20DSC /VP-R P230 | \$274,440.00 | \$186,622.50 | | \$0.00 | |
| UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized | \$227,000.00 | \$148,500.00 | Estimated cost does not include \$18,000 cost of vertical polarization. See attached Dielectric Quote #45098. | 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 | N/A | N/A | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | See attached Dielectric Quote #45098. | N/A | N/A |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | \$12,300.00 | \$10,297.50 | See attached Dielectric Quote #45098. | N/A | N/A |

| | | | | | |
|--|----------------|----------------|---------------------------------------|--------------|-----|
| Side mount brackets for high power antennas (if not included in antenna base cost) | \$23,150.00 | \$16,425.00 | See attached Dielectric Quote #45098. | N/A | N/A |
| Sub-total | \$552,088.00 | \$440,480.50 | N/A | \$171,178.20 | N/A |
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | N/A | \$405,582.36 | N/A |

Components

| Actual Information | |
|---|--|
| Description | File Name |
| UHF - High Power, Side Mount, basic slot antenna, 24 bay,, 210 kW input, directional,, elliptically or circularly polarized | <div> Component Description: 45% "prior to ship" payment for interim antenna. Supporting documentation attached. This invoice has been paid. </div> <div> Amount: \$77,858.10 </div> <div> Component Description: 45% "down payment" for interim antenna. Supporting documentation attached. This invoice has been paid. </div> <div> Amount: \$77,858.10 </div> |

| | | | | | | | | | |
|--|---|-------------------------------|---|----------------|------------|-------------------------------|--|----------------|------------|
| <p>Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)</p> | <table> <tr> <td data-bbox="694 87 1093 481">Component Description:</td><td data-bbox="1093 87 1428 481">45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid.</td></tr> <tr> <td data-bbox="694 481 1093 593">Amount:</td><td data-bbox="1093 481 1428 593">\$4,851.00</td></tr> <tr> <td data-bbox="694 593 1093 987">Component Description:</td><td data-bbox="1093 593 1428 987">45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid.</td></tr> <tr> <td data-bbox="694 987 1093 1081">Amount:</td><td data-bbox="1093 987 1428 1081">\$4,851.00</td></tr> </table> | Component Description: | 45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid. | Amount: | \$4,851.00 | Component Description: | 45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid. | Amount: | \$4,851.00 |
| Component Description: | 45% "prior to ship" payment for interim elbow complex. Supporting documentation attached. This invoice has been paid. | | | | | | | | |
| Amount: | \$4,851.00 | | | | | | | | |
| Component Description: | 45% "down payment" for interim elbow complex. Supporting documentation attached. This invoice has been paid. | | | | | | | | |
| Amount: | \$4,851.00 | | | | | | | | |
| <p>New combiner, cost per channel (without antenna)</p> | <p>Information not provided.</p> | | | | | | | | |

| | |
|--|--|
| Sweep test of existing antenna | <div> <div> Component Description: 45% "prior to ship" payment for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid. </div> <div> Amount: \$2,880.00 </div> </div> <div> <div> Component Description: 45% "down payment" for repack sweep of interim operations. Supporting documentation attached. This invoice has been paid. </div> <div> Amount: \$2,880.00 </div> </div> |
| UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized | Information not provided. |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | Information not provided. |
| Sweep test of existing antenna | Information not provided. |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | Information not provided. |
| Side mount brackets for high power antennas (if not included in antenna base cost) | 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 | \$284,200.00 | \$195,428.80 | | \$0.00 | |
| Rigid Transmission Line - copper, 6 1/8" broadband | \$284,200.00 | \$195,428.80 | See attached Dielectric Quote #700467CMZ. | \$0.00 | N/A |
| Primary Transmission Line | \$258,900.00 | \$183,975.80 | | \$0.00 | |
| Sweep existing transmission line | \$6,400.00 | \$6,400.00 | N/A | N/A | N/A |
| Rigid Transmission Line - copper, 6 1/8" | \$252,500.00 | \$177,575.80 | See attached Dielectric Quote #45098 (Line Items 4 and 5). | N/A | N/A |
| Sub-total | \$543,100.00 | \$379,404.60 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | N/A | \$405,582.36 | 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 |
|---|-----------------------------|---------------------|---|---------------------|---------------------------|
| Primary Tower GTOWER | \$421,000.00 | \$92,400.00 | | \$0.00 | |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00 | \$92,400.00 | See attached Vertical Technology Services Quote #17455-PA-REV-1 (Line Item C) | \$0.00 | N/A |
| Primary Tower TOWER | \$657,800.00 | \$542,800.00 | | \$117,800.00 | |
| Tall Tower (greater than 500') | \$210,500.00 | \$117,800.00 | See attached Vertical Technology Services Quote #17455-PA-REV-1 (Line Item B) | \$117,800.00 | N/A |
| Major tower reinforcement /modifications | \$421,000.00 | \$400,000.00 | N/A | N/A | N/A |

| | | | | | |
|--|----------------|----------------|-----|--------------|-----|
| 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 | N/A | N/A |
| Sub-total | \$1,078,800.00 | \$635,200.00 | N/A | \$117,800.00 | N/A |
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | N/A | \$405,582.36 | N/A |

Components

| Actual Information | |
|---|---------------------------|
| Description | File Name |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | Information not provided. |

| | |
|---|---|
| Tall Tower (greater than 500') | <div data-bbox="710 174 1377 526"> <p>Component Description: Progress payment for tower service at ABC Joint Venture Tower. Supporting documentation attached. This invoice has been paid.</p> <p>Amount: \$5,000.00</p> </div> <div data-bbox="710 633 1377 985"> <p>Component Description: Progress payment for tower service at ABC Joint Venture tower. Supporting documentation attached. This invoice has been paid.</p> <p>Amount: \$50,000.00</p> </div> <div data-bbox="710 1093 1364 1402"> <p>Component Description: Final progress payment for tower service at ABC Joint Venture tower. Supporting documentation attached.</p> <p>Amount: \$62,800.00</p> </div> |
| Major tower reinforcement /modifications | Information not provided. |
| Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study | 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 | \$144,380.00 | \$136,750.00 | | \$0.00 | |
| Comprehensive coverage verification via field study, if needed | \$84,200.00 | \$80,000.00 | N/A | 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 | N/A | 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 | \$3,680.00 | \$3,500.00 | 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 - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | N/A | \$0.00 | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |
| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$2,500.00 | See AT exhibit for more information. | N/A | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|----------------|----------------|-----|--------------|-----|
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | \$1,580.00 | \$1,500.00 | N/A | N/A | N/A |
| Prepare request for Special Temporary Authorization | \$2,050.00 | \$1,500.00 | N/A | N/A | N/A |
| RF Exposure Measurements | \$21,050.00 | \$20,000.00 | N/A | N/A | N/A |
| Sub-total | \$144,380.00 | \$136,750.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | N/A | \$405,582.36 | N/A |

Components

| Actual Information | |
|--|---------------------------|
| Description | File Name |
| 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 | Information not provided. |
| ASR modification (prepare FCC Form 854) | Information not provided. |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | Information not provided. |
| Attorney Fees - Negotiation of lease and other matters for shared locations | 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 | <p>Component Description: Invoice for station's portion of general repack legal expenses incurred for 42 of the ION repack stations for period 2/1/2017 - 12/15/2017. Payee has corresponded with FCC staff and has provided corrected supporting documentation.</p> <p>Amount: \$4,837.97</p> |
| Prepare and or review reimbursement form | Information not provided. |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |
| Perform engineering study for new channel assignment and antenna development | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Prepare request for Special Temporary Authorization | Information not provided. |
| RF Exposure Measurements | 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 | \$98,220.00 | \$92,765.00 | | \$0.00 | |
| Obtain building permits from local zoning authorities | <i>\$750.00</i> | \$750.00 | See AT exhibit for more information. | N/A | N/A |
| MVPD Notification of Channel Change | <i>\$2,500.00</i> | \$2,500.00 | N/A | N/A | N/A |
| Develop and air announcement of upcoming channel change | <i>\$0.00</i> | \$0.00 | The amount is yet to be determined (TBD) and ION will submit on-air announcement costs when finalized. | N/A | N/A |
| Equipment Storage | <i>\$10,000.00</i> | \$10,000.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | <i>\$10,000.00</i> | \$10,000.00 | N/A | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$15,000.00</i> | \$15,000.00 | N/A | N/A | N/A |
| Non-zoning permits | <i>\$15,000.00</i> | \$15,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|--------------------|----------------|---|--------------|-----|
| Local Zoning | \$25,000.00 | \$25,000.00 | N/A | 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 |
| DTV Medical Facility Notification | \$11,550.00 | \$6,500.00 | N/A | N/A | N/A |
| AM Pattern Disturbance -- Impact study | \$7,890.00 | \$7,500.00 | As required per the Construction Permit Authorization's Waivers /Special Conditions, a proof of performance study shall be conducted to establish that the AM array (WNWR) has not been adversely affected. | N/A | N/A |
| Sub-total | \$98,220.00 | \$92,765.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | N/A | \$405,582.36 | N/A |

Components

Information not provided.

**Cost
Information****Grand Total**

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|------------------------------|--|-----------------------|--------------------|
| Total for all systems | \$3,205,113.00 | \$2,174,359.64 | \$405,582.36 |

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>Mario Vasquez <i>Vice President - Finance, Operations</i></p> <p>03/08/2018</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>Mario Vasquez <i>Vice President - Finance, Operations</i></p> <p>03/08/2018</p> |

Attachments