



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **63153** | Service: **DTV** | Call **WCAU** | Channel: **34 (UHF)** |
ID: | Sign:
File **0000028212**
Number:
FRN: **0019509470** | Date **05/18**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|--------------------------|-----------------------------------|---------------------------------|
| NBC TELEMUNDO LICENSE LLC | Margaret L. Tobey 300 NEW JERSEY AVENUE, NW SUITE 700 WASHINGTON, DC 20001 United States | +1 (202) 524- 6401 | MARGARET. TOBEY@NBCUNI. COM | Limited Liability Company |

Reimbursement Contact Information

Reimbursement Contact Name and Information

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

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---|--|-----------------------|-------------------------------|
| Margaret L Tobey <i>NBCUniversal, LLC</i> | 300 New Jersey Ave. NW Suite 700 Washington, DC 20001 United States | +1 (202) 524- 6401 | Margaret.Tobey@nbcuni. com |

**Broadcaster
Information
and
Transition
Plan**

| Question | Response |
|--|---|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | Yes |
| Briefly describe transition plan | Use existing main transmitter on existing aux antenna. Remove main antenna,. Install new antenna, replace IOT aux with new solid state on new channel for use as main on new antenna. Replace IOT main with solid state as aux and replace aux antenna. |

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 | Retune Existing |
| | Use | Primary (Main) |
| | Ownership | Owned |
| | Owner | 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 | Comark |

| | |
|----------------|-----------------------|
| Model | DCXP-2 |
| Year | 2009 |
| Type | Inductive Output Tube |
| IOT Power Type | Two |
| Power capacity | 55 kW |

Primary Transmitter

Retuning Transmitter Costs

| Section | Question | Response |
|-----------------|--|------------------------------|
| New IOT Tubes | Number of Tubes (including accessories) needed | 2 |
| New Mask Filter | Power | 60 kW |
| | Other Power | N/A |
| New Exciter | Is a new exciter needed? | Yes |
| | Exciter Type | Dual exciter with changeover |

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 | No |

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

**Primary
Transmitter**

Other Transmitter Cost Not Listed

Information not provided.

**Auxiliary
Transmitter****Existing Transmitter Information**

| Section | Question | Response |
|---|---|---|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Auxiliary (Backup) |
| | Description of Use | To maintain coverage when main transmitter or antenna are unavailable |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter Manufacturer and Type | Manufacturer | |
| | Model | DCX Millenium |
| | Year | 1998 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 40 kW |

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

| Section | Question | Response |
|-----------------|---|---|
| New Transmitter | Use | Auxiliary (Backup) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Manufacturer | |
| | Model | THU9-36 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 55 kW |
| | Justification for New Transmitter | New Solid State transmitter is requested as existing IOT is EOL. A Solid State transmitter is less expensive then a replacement IOT. |

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

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

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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

| Name | Description |
|-----------|--|
| RF System | RF System for new transmitter: Filter and Output Switching |

Antennas

| Section | Question | Response |
|--------------------------|---------------------------------------|----------|
| Antenna Related Expenses | Do you have antenna related expenses? | Yes |

**Auxiliary
Antenna****Existing Antenna Information**

| Section | Question | Response |
|---|---|---|
| Existing Antenna Description | Type of change | Purchase New |
| | Antenna Use | Auxiliary (Backup) |
| | Description of Use | To maintain coverage when primary antenna is unavailable |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | No |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | Yes |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | 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) | 739.0 kW |
| Manufacturer | |
| Model | TFU-24JTH /VP-R O6 |
| Year | 2011 |

**Auxiliary
Antenna****New Antenna Costs**

| Section | Question | Response |
|---|--|--|
| New Antenna Description | Use | Auxiliary (Backup) |
| | Description of Use | Used to maintain coverage when main antenna is unavailable |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | 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) | 618.0 kW |
| Manufacturer | |
| Model | TFU-22JTH /VP-R O6 |
| Year | 2019 |
| Justification for New Antenna | New antenna required because existing auxiliary is single channel and will not work on new channel (Ch 28) |

Auxiliary 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? | 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 |

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

**Primary
Antenna**

Existing Antenna Information

| Section | Question | Response |
|---|--|--------------------|
| Existing Antenna Description | Type of change | Purchase New |
| | Antenna Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | No |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | Yes |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Top |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 700.0 kW |
| | | |

| | |
|--------------|-----------------------|
| Manufacturer | |
| Model | TFU-24ETT /VP-R O6 |
| Year | 2009 |

Primary
Antenna

New Antenna Costs

| Section | Question | Response |
|------------------------------------|--|-----------------|
| New Antenna Description | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | Yes |
| New Antenna Manufacturer and Types | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Top |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 618.0 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|---|
| Model | TFU-22JTH /VP-R O6 |
| Year | 2019 |
| Justification for New Antenna | Existing antenna will not work on new channel (ch 28) |

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? | 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? | No |

**Primary
Antenna**

Other Antenna Cost Not Listed

| Name | Description |
|-------------------------------|---|
| Transmission Line accessories | transitions and connectors for installation |

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 | Utilize Existing |
| | 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 | Dielectric |
| | Type | Rigid |
| | Diameter | 7 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 19 3/4 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1375 feet per run |

| Primary Transmission Line | Other Transmission Line Expenses Not Listed |
|---------------------------|---|
| Information not provided. | |

Auxiliary
Transmission Line

Existing Transmission Line

| Section | Question | Response |
|---|--|---|
| Existing Transmission Line Description | Type of change | Purchase New |
| | Use | Auxiliary (Backup) |
| | Description of Use | used to maintain coverage when primary antenna is unavailable |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing transmission line shared with another station or stations? | No |
| | Is Transmission Line in operating condition? | Yes |
| Existing Transmission Line Manufacturer and Type | Manufacturer | |
| | Type | Rigid |
| | Diameter | 7 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 19 3/4 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1375 feet per run |

Auxiliary **New Transmission Line**
Transmission Line **Section**

| | Question | Response |
|------------------------------------|---|---|
| New Transmission Line Costs | Use | Auxiliary (Backup) |
| | Description of Use | used to maintain coverage when primary antenna is unavailable |
| | 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 | 670 feet per run |
| | Justification for New Transmission Line | Existing line (19 3/4") will not work on new channel (ch 28) |

Auxiliary **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 |

**Auxiliary
Tower**

Existing Tower

| Section | Question | Response |
|---|---|--|
| Existing Tower Description | Type of change | Modify Existing |
| | Tower Use | Auxiliary (Backup) |
| | Description of Use | used to maintain coverage when main antenna is unavailable |
| | Ownership | Owned |
| | Is this tower consider Complex? | No |
| | Is this tower currently shared with any other stations? | No |
| | One or more FM, AM or TV radio broadcaster(s) | N/A |
| | Others Types of Users | N/A |
| | Is tower documented for structural analysis? | No |
| | Is tower compliant with Rev G? | No |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1025386 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 40° 02' 31.2" N- |
| | Longitude (NAD83) | 075° 14' 10.4" W- |
| | Overall Structure Height | 582.01 feet |

| | |
|--|--|
| Support Structure Height | 507.87 feet |
| Ground Elevation Above Mean Sea Level (AMSL) | 284.12 feet |
| Structure Type | TOWER - Free Standing or Guyed Structure |
| Tower Owner | NBC Telemundo License LLC |
| Date Constructed | 07/29/2005 |

Auxiliary Tower

Tower Modification Costs

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

Auxiliary Tower

Tower Rigging Costs

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

Auxiliary Tower

Other Tower Expenses Not Listed

Information not provided.

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? | 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 |
|-------------|-----------|---------|
| 72278 | WPHA-CD | DTV |
| 9622 | WOGL | FM |
| 60560 | WUVP-DT | DTV |
| 1283 | KJWP | DTV |
| 51984 | WPPX-TV | DTV |
| 74216 | WFPA-CD | DTV |
| 74213 | WXTU | FM |
| 55305 | WTVE | DTV |
| 65190 | WRTI | FM |
| 12211 | WPPZ-FM | FM |
| 28480 | WYBE | DTV |
| 12499 | WPSG | DTV |
| 30572 | WPHI-FM | FM |
| 28628 | WIP-FM | FM |
| 7623 | WGTW-TV | DTV |
| 51434 | WTDY-FM | FM |

**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: | 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

Information not provided.

**Outside
Professional Services Costs**

| Section | Question | Response |
|---|--|---|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 1040 |
| | Explanation | Project oversight of transmitter install, electrical connectivity, tower work, and antenna installation. Additional time will be spent tracking financial and legal process and coordinating with other broadcasters. |
| Outside RF consulting Engineering Services | Perform engineering study for new channel assignment and antenna development | No |
| | Prepare engineering section of Form FCC Construction Permit Application | No |
| | For Auxiliary Facility | N/A |
| | For Main Facility | N/A |
| | Prepare engineering section of Form FCC License to Cover Application | No |
| | For Auxiliary Facility | N/A |
| | For Main Facility | N/A |
| | Prepare request for Special Temporary Authority | No |
| | Quantity | N/A |
| | 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 | No |
| | Quantity | N/A |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| RF Field Engineering Services | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 40 |
| | Justification | Ground level RF design |

Outside Other Professional Services Expenses Not Listed
Professional Services Costs
Services not provided.

Other Expenses

| Section | Question | Response |
|-------------------------------------|--|----------|
| AM Pattern Disturbance | Is an Impact Study needed? | No |
| | Is Remediation needed? | No |
| Facility Expenses | Name | N/A |
| | Other Distributed Transmission System Expenses Not listed | N/A |
| | Name | N/A |
| | Is Notification of a Medical Facility required as a result of DTV broadcasting? | Yes |
| Permit and Filing Costs | Local Zoning | Yes |
| | Non-zoning permits | Yes |
| | BLM or NFS Coordination | No |
| | FCC Construction Permit Minor Change | 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 |
| | 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 DCXP-2 | \$748,250.00 | \$807,000.00 | | \$0.00 | |
| Two IOT system (55 kW) | \$356,500.00 | \$435,000.00 | see attached proposal from comark | N/A | N/A |
| 2 IOT Tubes | \$255,000.00 | \$242,000.00 | N/A | N/A | N/A |
| 60 kW mask filter | \$89,400.00 | \$85,000.00 | N/A | N/A | N/A |
| Dual exciter system with change over | \$47,350.00 | \$45,000.00 | N/A | N/A | N/A |
| Auxiliary Transmitter THU9-36 | \$1,891,100.00 | \$1,395,341.05 | | \$0.00 | |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW | \$1,788,000.00 | \$1,292,241.05 | N/A | N/A | N/A |
| Other Electrical Service: Contractor estimate on electrical disconnect and reconnect. | <i>\$15,000.00</i> | \$15,000.00 | N/A | N/A | N/A |

| | | | | | |
|----------------------------------|---------------------------|----------------|--|-------------|-----|
| RF System | <i>\$88,100.00</i> | \$88,100.00 | see attached transmitter proposal | N/A | N/A |
| Sub-total | \$2,639,350.00 | \$2,202,341.05 | N/A | \$0.00 | N/A |
| Total for all systems | \$5,642,227.00 | \$4,304,429.85 | N/A | \$15,395.39 | 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 TFU-22JTH/VP-R O6 | \$344,340.00 | \$242,933.00 | | \$0.00 | |
| Transmission Line accessories | <i>\$42,540.00</i> | \$42,540.00 | Included in antenna proposal | N/A | N/A |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | \$12,300.00 | \$12,383.00 | See attached quote | N/A | N/A |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00 | \$188,010.00 | N/A | N/A | N/A |
| Auxiliary Antenna TFU-22JTH/VP-R O6 | \$193,735.00 | \$191,403.00 | | \$0.00 | |
| UHF - High Power, Side Mount, basic slot antenna, 618 kW input, elliptically or circularly polarized | <i>\$174,705.00</i> | \$174,705.00 | N/A | N/A | N/A |

| | | | | | |
|--|----------------|----------------|-----|-------------|-----|
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | N/A | N/A |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | \$12,300.00 | \$10,298.00 | N/A | N/A | N/A |
| Sub-total | \$538,075.00 | \$434,336.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$5,642,227.00 | \$4,304,429.85 | N/A | \$15,395.39 | 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 |
|--|-----------------------------|----------------|------------------------------|-------------|---------------------------|
| Primary Transmission Line | \$0.00 | \$0.00 | | \$0.00 | |
| Auxiliary Transmission Line | \$135,340.00 | \$103,637.80 | | \$0.00 | |
| Rigid Transmission Line - copper, 6 1/8" | \$135,340.00 | \$103,637.80 | N/A | N/A | N/A |
| Sub-total | \$135,340.00 | \$103,637.80 | N/A | \$0.00 | N/A |
| Total for all systems | \$5,642,227.00 | \$4,304,429.85 | N/A | \$15,395.39 | 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 | \$605,300.00 | \$464,783.00 | | \$0.00 | |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00 | \$400,000.00 | N/A | N/A | N/A |
| Minor tower reinforcement /modifications | \$158,000.00 | \$50,000.00 | 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 | \$14,783.00 | Tower mapping and structural engineering | N/A | N/A |
| Auxiliary Tower TOWER | \$1,275,100.00 | \$712,000.00 | | \$0.00 | |
| Tall Tower (greater than 500') | \$210,500.00 | \$200,000.00 | N/A | N/A | N/A |
| Serious tower reinforcement /modifications | \$1,052,000.00 | \$500,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|----------------|----------------|-----|-------------|-----|
| Structural engineering tower load study for well documented tower | \$12,600.00 | \$12,000.00 | N/A | N/A | N/A |
| Sub-total | \$1,880,400.00 | \$1,176,783.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$5,642,227.00 | \$4,304,429.85 | N/A | \$15,395.39 | 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 | \$326,665.00 | \$272,250.00 | | \$15,395.39 | |
| 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 | 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 |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | N/A | \$453.60 | 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), License to Cover Application | \$2,365.00 | \$2,250.00 | N/A | N/A | N/A |
| Project management of the transition | \$164,320.00 | \$156,000.00 | N/A | \$9,262.54 | N/A |
| Additional Field Engineering Service, 40 Days | \$40,000.00 | \$40,000.00 | N/A | \$5,074.81 | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | \$604.44 | N/A |
| Sub-total | \$326,665.00 | \$272,250.00 | N/A | \$15,395.39 | N/A |
| Total for all systems | \$5,642,227.00 | \$4,304,429.85 | N/A | \$15,395.39 | N/A |

Components

| Actual Information | |
|--|---------------------------|
| Description | File Name |
| RF Exposure Measurements | Information not provided. |
| Comprehensive coverage verification via field study, if needed | Information not provided. |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |

| | | | | | | | | | |
|---|--|-------------------------------|---|----------------|----------|-------------------------------|--|----------------|---------|
| <p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p> | <table> <tr> <td data-bbox="703 174 1018 210">Component Description:</td><td data-bbox="1150 174 1318 286">Preparation of minor change application</td></tr> <tr> <td data-bbox="703 297 818 333">Amount:</td><td data-bbox="1150 297 1246 333">\$415.80</td></tr> <tr> <td data-bbox="703 434 1018 470">Component Description:</td><td data-bbox="1150 434 1347 658">Preparation of minor change application, see line 1 of invoice less 10% vendor discount.</td></tr> <tr> <td data-bbox="703 672 818 707">Amount:</td><td data-bbox="1150 672 1230 707">\$37.80</td></tr> </table> | Component Description: | Preparation of minor change application | Amount: | \$415.80 | Component Description: | Preparation of minor change application, see line 1 of invoice less 10% vendor discount. | Amount: | \$37.80 |
| Component Description: | Preparation of minor change application | | | | | | | | |
| Amount: | \$415.80 | | | | | | | | |
| Component Description: | Preparation of minor change application, see line 1 of invoice less 10% vendor discount. | | | | | | | | |
| Amount: | \$37.80 | | | | | | | | |
| <p>Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application</p> | <p>Information not provided.</p> | | | | | | | | |
| <p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p> | <p>Information not provided.</p> | | | | | | | | |

Project management of the transition

Component Description: Project Management Services
Amount: \$348.95

Component Description: Project Management Services
Amount: \$975.00

Component Description: Project management and expenses, see attachments for expense receipts
Amount: \$3,356.09

Component Description: Project Management Services
Amount: \$1,072.50

Component Description: Project Management Services
Amount: \$2,145.00

Component Description: Project Management Services
Amount: \$1,365.00

| | | | | | | | | | | | | | |
|--|---|-------------------------------|--|----------------|------------|-------------------------------|----------------------------|----------------|----------|-------------------------------|--------------------|----------------|---------|
| <p>Additional Field Engineering Service, 40 Days</p> | <table> <tr> <td data-bbox="694 87 1093 392">Component Description:</td><td data-bbox="1093 87 1428 392">Engineering Site Survey, see attached site survey report for supporting documentation.</td></tr> <tr> <td data-bbox="694 392 1093 510">Amount:</td><td data-bbox="1093 392 1428 510">\$5,074.81</td></tr> </table> | Component Description: | Engineering Site Survey, see attached site survey report for supporting documentation. | Amount: | \$5,074.81 | | | | | | | | |
| Component Description: | Engineering Site Survey, see attached site survey report for supporting documentation. | | | | | | | | | | | | |
| Amount: | \$5,074.81 | | | | | | | | | | | | |
| <p>Prepare and or review reimbursement form</p> | <table> <tr> <td data-bbox="694 510 1093 817">Component Description:</td><td data-bbox="1093 510 1428 817">See lines 2-4 of invoice, less 10% vendor discount.</td></tr> <tr> <td data-bbox="694 817 1093 1019">Amount:</td><td data-bbox="1093 817 1428 1019">\$371.79</td></tr> <tr> <td data-bbox="694 1019 1093 1332">Component Description:</td><td data-bbox="1093 1019 1428 1332">Amendment of 399 estimates</td></tr> <tr> <td data-bbox="694 1332 1093 1534">Amount:</td><td data-bbox="1093 1332 1428 1534">\$189.00</td></tr> <tr> <td data-bbox="694 1534 1093 1848">Component Description:</td><td data-bbox="1093 1534 1428 1848">Review of Form 399</td></tr> <tr> <td data-bbox="694 1848 1093 2049">Amount:</td><td data-bbox="1093 1848 1428 2049">\$43.65</td></tr> </table> | Component Description: | See lines 2-4 of invoice, less 10% vendor discount. | Amount: | \$371.79 | Component Description: | Amendment of 399 estimates | Amount: | \$189.00 | Component Description: | Review of Form 399 | Amount: | \$43.65 |
| Component Description: | See lines 2-4 of invoice, less 10% vendor discount. | | | | | | | | | | | | |
| Amount: | \$371.79 | | | | | | | | | | | | |
| Component Description: | Amendment of 399 estimates | | | | | | | | | | | | |
| Amount: | \$189.00 | | | | | | | | | | | | |
| Component Description: | Review of Form 399 | | | | | | | | | | | | |
| Amount: | \$43.65 | | | | | | | | | | | | |

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 | \$122,397.00 | \$115,082.00 | | \$0.00 | |
| Develop and air announcement of upcoming channel change | <i>\$30,000.00</i> | \$30,000.00 | N/A | 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>\$20,000.00</i> | \$20,000.00 | N/A | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| Non-zoning permits | <i>\$2,500.00</i> | \$2,500.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$4,250.00 | 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 |
| Local Zoning | \$10,817.00 | \$10,817.00 | \$4,700 to prepare tower documents \$4,700 to prepare ground documents \$750 permit application \$667 public hearing | N/A | N/A |
| MVPD Notification of Channel Change | \$12,000.00 | \$12,000.00 | N/A | N/A | N/A |
| Sub-total | \$122,397.00 | \$115,082.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$5,642,227.00 | \$4,304,429.85 | N/A | \$15,395.39 | N/A |

Components

Information not provided.

| | | | |
|-------------------------|------------------------------|------------------------------------|-----------------------|
| Cost Information | Grand Total | | |
| | | Predetermined Cost Estimate | Estimated Cost |
| | | | Actual Cost |
| | Total for all systems | \$5,642,227.00 | \$4,304,429.85 |
| | | | \$15,395.39 |

| | | |
|-----------------------------|--|-----------------|
| 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>Margaret L Tobey <i>Assistant Secretary</i></p> <p>05/18/2018</p> |

Attachments