

(REFERENCE COPY - Not for submission)

### FCC Form 399: Reimbursement Request

Facility 18334 Service: DTV Call WCTI-TV Channel:

ID: Sign:

**10 (High VHF)** File **0000028052** 

Number:

FRN: **0026809707** Date **07/11** 

Submitted: /2017

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

| Applicant  | Address   | Phone                       | Email                       | Applicant<br>Type |
|--|---|-----------------------------|-----------------------------|-------------------|
| NORTH CAROLINA LICENSE HOLDINGS, INC. Doing Business As: NORTH CAROLINA LICENSE HOLDINGS, INC. | Randall Bongarten THE EMPIRE STATE BUILDING 350 FIFTH AVENUE, SUITE 5340 NEW YORK, NY 10018 United States | +1<br>(212)<br>710-<br>7770 | RBONGARTEN@BONTENMEDIA. COM | Corporation       |

### Reimbursement Contact Name and Information Reimbursement Contact Information

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

#### Preparer Contact Information

#### **Preparer Contact Name and Information**

| Applicant | Address | Phone | Email |
|-----------|---------|-------|-------|
|           |         |       |       |

| Tom Cupp           | Tom Cupp                           | +1 (276) 645-1516 | tcupp@wcyb.com |
|--------------------|------------------------------------|-------------------|----------------|
| VP of Engineering  | 101 Lee Street                     |                   |                |
| Bonten Media Group | Bristol, VA 24201<br>United States |                   |                |

#### Broadcaster Information and Transition Plan

| Question   | Response   |
|--|--|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | Yes  |
| Briefly describe transition plan   | Install interim channel 10 antenna, line, and transmitter before switchover date. At switchover date, begin operation on channel 10 interim system. Remove channel 12 equipment. Install full power channel 10 equipment and begin operations. |

#### **Transmitters**

| rs | 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<br>New   |
|                                  | Use  | Primary<br>(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   |                   |
| Manufacturer and Type            | Model  | Platinum          |
|                                  | Year   | 1999              |
|                                  | Туре   | Solid State       |
|                                  | Solid State Cooling  | Air Cooled        |
|                                  | Solid State Power Capacity                                 | 10 kW             |

### Primary Transmitter

#### **New Transmitter Costs**

| Section         | Question                                  | Response  |
|-----------------|---|---|
| New Transmitter | Use                                       | Primary<br>(Main)   |
|                 | Change Type                               | Purchase<br>New   |
|                 | Is this a request for upgraded equipment? | Yes   |
|                 | Manufacturer                              |   |
|                 | Model                                     | THV9  |
|                 | Transmitter Type                          | Solid State   |
|                 | Solid State Cooling                       | Liquid Cooled   |
|                 | Solid State Power capacity                | 10 kW   |
|                 | Justification for New Transmitter         | Manufacturer states old transmitter cannot be retuned to new channel. |

### Primary Transmitter

#### **Other Transmitter Costs**

| Section            | Question                              | Response  |
|--------------------|---------------------------------------|-----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | Yes       |
|                    | Switchgear (industrial 800 amp)       | Yes       |
|                    | Transformer (480V)                    | Yes       |
|                    | Power                                 | 300 kVA   |
|                    | Rigid Conduit and Wiring              | Yes       |
|                    | Size                                  | 4 inches  |
|                    | Length                                | 50.0 feet |
|                    | Other Electrical Service              | Yes       |

|   | Description  | Inside building work for conduit and wire to new main transmitter. |
|---|--|--|
| HVAC Service  | Does the replacement transmitter require HVAC Service?                                       | Yes  |
|   | Туре   | Cooling<br>Only  |
|   | Size   | 30 tons  |
|   | Other Size   | N/A  |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leashold 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

**Other Transmitter Cost Not Listed** 

**Transmitter** Information not provided.

#### Interim Transmitter

#### **New Transmitter Costs**

| Section         | Question                          | Response   |
|-----------------|-----------------------------------|--|
| New Transmitter | Use                               | Interim  |
|                 | Description of Use                | N/A  |
|                 | Change Type                       | Purchase   |
|                 | Manufacturer                      |  |
|                 | Model                             | VAXTE-<br>2R44   |
|                 | Transmitter Type                  | Solid State  |
|                 | Solid State Cooling               | Air Cooled   |
|                 | Solid State Power capacity        | 1.6 kW   |
|                 | Justification for New Transmitter | Currently, there is no interim transmitter for channel 10. This interim transmitter will be placed on air while the channel 12 equipment is removed and replaced with the full power channel 10 equipment. |

#### Interim 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  | Inside building wiring from breaker box to interim transmitter. |
| HVAC Service  | Does the replacement transmitter require HVAC Service?                                       | No  |
|   | Туре   | 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 leashold 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   |
| Inside RF System  | Is an additional interior RF system required to support this interim transmitter?            | Yes   |
|   |  |   |

#### Interim Transmitter

**Transmitter** Information not provided.

#### **Antennas**

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

#### **Existing Antenna Information**

| Section                      | Question   | Response           |
|------------------------------|--|--------------------|
| Existing Antenna Description | Type of change   | Purchase<br>New    |
|                              | Antenna Use  | Primary<br>(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?  | No                 |
| Existing Antenna             | Class  | Full Power         |
| Manufacturer and Type        | Mounting   | Top Mount          |
|                              | Antenna position in stack  | Not in Stack       |
|                              | Polarization   | Circular           |
|                              | Туре   | Slotted<br>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)                                  | 32.8 kW            |

| Manufacturer |           |
|--------------|-----------|
| Model        | TCL-16A12 |
| Year         | 1981      |

#### **New Antenna Costs**

| Section                    | Question   | Response           |
|----------------------------|--|--------------------|
| New Antenna<br>Description | Use  | Primary<br>(Main)  |
|                            | Description of Use   | N/A                |
|                            | Change Type  | Purchase<br>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? | No                 |
| New Antenna                | Class  | Full Power         |
| Manufacturer and Types     | Mounting   | Top Mount          |
|                            | Antenna position in stack  | Not in Stack       |
|                            | Polarization   | Elliptical         |
|                            | Туре   | Slotted<br>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)                                      | 32.8 kW            |
|                            | Manufacturer   |                    |

| Model                         | THV-12A10  |
|-------------------------------|--|
| Year                          | /VP-R<br>2017  |
| Justification for New Antenna | Manufacturer states that old antenna cannot be retuned to new channel. See attachment. |

#### **Other Antenna Costs**

| Section                     | Question  | Response            |
|-----------------------------|---|---------------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna?  | No                  |
|                             | Туре  |                     |
|                             | 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<br>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 |
|------------|--|-----|
|------------|--|-----|

#### **Other Antenna Cost Not Listed**

| Name              | Description                              |
|-------------------|--|
| Top Plate adapter | Match tower top and antenna bolt pattern |

#### Interim Antenna

#### **New Antenna Costs**

| Section                 | Question   | Response          |
|-------------------------|--|-------------------|
| New Antenna Description | Use  | Interim           |
|                         | Description of Use   | N/A               |
|                         | Change Type  | Purchase<br>New   |
|                         | Ownership  | Owned             |
|                         | Owner  | N/A               |
|                         | Is antenna shared?   | No                |
|                         | Is antenna directional?  | Yes               |
|                         | Will antenna be located on or in close proximity to an antenna farm? | No                |
| New Antenna             | Class  | Full Power        |
| Manufacturer and Type   | Mounting   | Side Mount        |
|                         | Antenna position in stack  | Not in Stack      |
|                         | Polarization   | Elliptical        |
|                         | Туре   | Broadband<br>Slot |
|                         | Number of Stations Supported   | 1                 |
|                         | Number of Panels/Bays  | 8                 |
|                         | Lower Limit  | 174.00 MHz        |
|                         | Upper Limit  | 216.00 MHz        |
|                         | Design power capacity in use   | 20.0 %            |
|                         | Other Antenna Type   | N/A               |
|                         | ERP: (Effective Radiated Power)                                      | 11.2 kW           |
|                         | Manufacturer   |                   |
|                         | Model  | TLSV8             |
|                         | Year   | 2017              |

| Justification for New Antenna  Currently, there is no channel 10 interim antenna.  This is needed to place the ch. 10 interim system on air while the old ch.  12 equipment is removed and the full power ch.  10 |   |   |
|---|---|---|
| l IU  | the ch int an Th                                      | ere is no eannel 10 erim etenna. his is eeded to ace the              |
| 10  | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is<br>an | erim estem on r while e old ch. duipment removed ad the full ower ch. |
| I IV  | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is<br>an | erim estem on r while e old ch. duipment removed ad the full ower ch. |
|   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is<br>an | erim estem on r while e old ch. duipment removed ad the full ower ch. |
| 10  | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is<br>an | stem on while e old ch. quipment removed and the full                 |
|   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is<br>an | stem on while e old ch. quipment removed and the full                 |
|   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is       | erim estem on r while e old ch. claim guipment removed                |
|   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is       | erim estem on r while e old ch. claim guipment removed                |
|   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq<br>is       | erim estem on r while e old ch. claim guipment removed                |
| power ch.   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq             | eerim stem on while e old ch.   |
| power ch.   | ch<br>int<br>sy<br>air<br>the<br>12<br>eq             | eerim stem on while e old ch.   |
| and the full power ch.  | ch<br>int<br>sy<br>air<br>the<br>12<br>eq             | eerim stem on while e old ch.   |
| and the full power ch.  | ch<br>int<br>sy<br>air<br>the                         | erim estem on while e old ch.   |
| is removed and the full power ch.   | ch<br>int<br>sy<br>air<br>the                         | erim estem on while e old ch.   |
| is removed and the full power ch.   | ch<br>int<br>sy<br>air<br>the                         | erim<br>stem on<br>while<br>e old ch.                                 |
| is removed and the full power ch.   | ch<br>int<br>sy<br>air<br>the                         | erim<br>stem on<br>while<br>e old ch.                                 |
| equipment is removed and the full power ch.   | ch<br>int<br>sy<br>air                                | erim<br>stem on<br>while  |
| equipment is removed and the full power ch.   | ch<br>int<br>sy<br>air                                | erim<br>stem on<br>while  |
| equipment is removed and the full power ch.   | ch<br>int<br>sy                                       | erim<br>stem on   |
| equipment is removed and the full power ch.   | ch<br>int<br>sy                                       | erim<br>stem on   |
| the old ch.  12 equipment is removed and the full power ch.   | ch  | erim  |
| air while the old ch. 12 equipment is removed and the full power ch.  | ch  |   |
| air while the old ch. 12 equipment is removed and the full power ch.  |   | . 10  |
| system on air while the old ch.  12 equipment is removed and the full power ch.   |   | 10  |
| interim system on air while the old ch. 12 equipment is removed and the full power ch.  | Pic   |   |
| interim system on air while the old ch. 12 equipment is removed and the full power ch.  | nla   | ace the   |
| ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   |   |   |
| place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   | ne  | ot behave   |
| place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   | Th  | nis is  |
| needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   | all   | iterina.  |
| This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   | an  | tonno   |
| This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   | int   | erim  |
| antenna. This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.  | cn  | annei 10  |
| interim antenna. This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.  | ala   | 110   |
| interim antenna. This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.  | the   | ere is no   |
| channel 10 interim antenna. This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.   |   |   |
| there is no channel 10 interim antenna.  This is needed to place the ch. 10 interim system on air while the old ch. 12 equipment is removed and the full power ch.  | Justification for New Antenna Cu                      | irrently  |

#### Interim Antenna

#### **Other Antenna Costs**

| Section                  | Question  | Response |
|--------------------------|---|----------|
| Elbow Complex            | Do you require the separate purchase of the Elbow Complex?  | No       |
|                          | Broadband or Single Channel?  | N/A      |
|                          | Feed Line Size  | N/A      |
| Side Mount Brackets      | Do you require the separate purchase of side mount brackets for an antenna?                                 | Yes      |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes      |
| Sweep Test               | Do you require the sweep testing of transmission line and antenna?  | Yes      |

#### Interim Antenna

**Other Antenna Cost Not Listed** 

| Transmission <sup>Seffien</sup>    | Question  | Response |
|------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | Yes      |

#### **Existing Transmission Line**

# Primary Transmission Line

| n Line<br>Section                      | Question   | Response             |
|--|--|----------------------|
| Existing Transmission Line Description | Type of change   | Purchase<br>New      |
|  | Use  | Primary<br>(Main)    |
|  | Description of Use   | N/A                  |
|  | Ownership  | Owned                |
|  | Owner  | N/A                  |
|  | Site   | N/A                  |
|  | Is the existing transmission line shared with another station or stations? | Yes                  |
|  | Is Transmission Line in operating condition?                               | Yes                  |
| Existing Transmission                  | Manufacturer   |                      |
| Line Manufacturer and Type             | Туре   | 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   | 2000 feet<br>per run |

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

| Facility ID | Call Sign |
|-------------|-----------|
| 35582       | WYDO      |

#### Primary Transmi

#### **New Transmission Line**

| on Line<br>Section          | Question                                  | Response  |
|-----------------------------|---|---|
| New Transmission Line Costs | Use                                       | Primary<br>(Main)   |
|                             | Description of Use                        | N/A   |
|                             | Change Type                               | Purchase<br>New   |
|                             | Is this a request for upgraded equipment? | No  |
|                             | Туре                                      | Rigid   |
|                             | Diameter                                  | 6 1/8 inches  |
|                             | Other Diameter                            | N/A   |
|                             | Segment Length                            | 19 1/2 inches   |
|                             | Other Segment Length                      | N/A   |
|                             | Number of parallel runs                   | 1   |
|                             | Length                                    | 2000 feet<br>per run  |
|                             | Justification for New Transmission Line   | Old line is<br>20 ft.<br>sections.<br>New<br>channel<br>requires<br>19.5 ft.<br>sections. |

Primary Other Transmission Line Expenses Not Listed Transmission Loine tion not provided.

#### Interim

#### **New Transmission Line**

| Fransmissio | 'Settion                       | Question                                | Response  |
|-------------|--------------------------------|---|---|
|             | New Transmission Line<br>Costs | Use                                     | Interim   |
|             |                                | Description of Use                      | N/A   |
|             |                                | Change Type                             | Purchase<br>New   |
|             |                                | Туре                                    | Flexible<br>Foam  |
|             |                                | Diameter                                | 1 5/8 inche   |
|             |                                | Segment Length                          | N/A   |
|             |                                | Other Segment Length                    |   |
|             |                                | Number of parallel runs                 | 1   |
|             |                                | Length                                  | 750 feet pe   |
|             |                                | Justification for New Transmission Line | Currently, there is no interim ch. 10 transmission line. This is needed to place the interim ch 10 equipment on air. Then the existing ch 12 equipment will be removed and the full power ch. 10 equipment installed. |

**Other Transmission Line Expenses Not Listed** 

Transmission loine tion not provided.

# Tower Equipment And Rigging Costs

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

#### Primary Tower

### **Existing Tower**

| Section  | Question  | Response                                       |
|--|---|--|
| Existing Tower   | Type of change  | Modify Existing                                |
| Description  | Tower Use   | Primary (Main)                                 |
|  | Description of Use                                      | N/A  |
|  | Ownership   | Owned  |
|  | Is this tower consider Complex?                         | No   |
|  | Is this tower currently shared with any other stations? | 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<br>Structure<br>Registration              | Do you have a tower registration number?                | Yes  |
|  | ASR Number  | 1011271  |
| Coordinates (NAD83<br>(North American<br>Datum of 1983)) | Latitude (NAD83)  | 35° 06' 16.0" N-                               |
|  | Longitude (NAD83)                                       | 077° 20' 11.0" W-                              |
|  | Overall Structure Height                                | 1988.82 feet                                   |
|  | Support Structure Height                                | 1878.59 feet                                   |
|  | Ground Elevation Above Mean Sea Level (AMSL)            | 45.93 feet                                     |
|  | Structure Type  | TOWER - Free<br>Standing or<br>Guyed Structure |

| Tower Owner      | EASTERN NORTH CAROLINA BROADCASTING CORPORATION |
|------------------|---|
| Date Constructed | 01/01/1981                                      |

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 |
|-------------|-----------|---------|
| 35582       | WYDO      | DTV     |
| 69444       | WUNM-TV   | DTV     |
| 36950       | WRNS-FM   | FM      |

#### Primary Tower

#### **Tower Modification Costs**

| Section              | Question   | Response  |
|----------------------|--|---|
| Engineering Study    | Please what type of engineering study is required, if any: | Study needed<br>for<br>undocumented<br>/poorly<br>documented<br>tower |
| Tower Reinforcements | Please select whether tower reinforcements are needed:     | Major<br>Reinforcements<br>needed                                     |

#### Primary Tower

#### **Tower Rigging Costs**

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

Primary Tower Other Tower Expenses Not Listed

#### Outside Professional

| Section  | Question   | Response  |
|--|--|---|
| Services Costs<br>Outside Project<br>Management Services | Do you require outside project management services?                          | Yes   |
|  | Number of Hours  | 260   |
|  | Explanation  | Not enough<br>experienced<br>station<br>personnel<br>to manage<br>this large of<br>a project. |
| Outside RF consulting<br>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                    | Prepare and file Form FCC Construction Permit Application                    | Yes   |
| Services   | 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<br>Authority   | Yes |
|                                  | Quantity   | 1   |
|                                  | NEPA Section 106 environmental review  | Yes |
|                                  | Environmental Assessment   | Yes |
|                                  | ASR Modification   | Yes |
|                                  | FAA Consultation (including preparation of FAA Form 7460)                                  | Yes |
|                                  | Negotiation of Lease and other Matter for Shared Locations                                 | No  |
|                                  | Prepare or Review FCC Form 399 for Reimbursement   | Yes |
|                                  | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| RF Field Engineering<br>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
Other Professional Services Expenses Not Listed
Professional Services ©qstsided.

# 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<br>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   | No       |
|                                 | 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<br>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 Not Listed

**Expenses** Information not provided.

#### **Transmitters**

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

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Interim<br>Transmitter<br>VAXTE-2R44  | \$246,400.00                   | \$173,236.00      |                                    | \$0.00         |                              |
| VHF inside RF<br>system<br>including<br>switching   | \$78,900.00                    | \$75,000.00       | N/A                                | N/A            | N/A                          |
| High VHF - Air<br>Cooled Solid<br>State<br>Transmitter 1.1 .<br>4.4 kW                    | \$152,500.00                   | \$83,236.00       | N/A                                | N/A            | N/A                          |
| Other Electrical Service: Inside building wiring from breaker box to interim transmitter. | \$15,000.00                    | \$15,000.00       | N/A                                | N/A            | N/A                          |
| Primary<br>Transmitter<br>THV9  | \$621,950.00                   | \$482,738.00      |                                    | \$0.00         |                              |
| Other HVAC<br>Service Type: C<br>Size:30 (Other)  | \$65,000.00                    | \$65,000.00       | N/A                                | N/A            | N/A                          |
| Switchgear -<br>industrial 800<br>amp   | \$38,200.00                    | \$36,300.00       | N/A                                | N/A            | N/A                          |
| 4" Rigid Conduit<br>and Wiring<br>(Cost per foot)   | \$5,050.00                     | \$4,800.00        | N/A                                | N/A            | N/A                          |
| Service<br>entrance 3<br>phase/800 amp<br>/208 volt                                       | \$14,400.00                    | \$13,700.00       | N/A                                | N/A            | N/A                          |

| Solid State<br>Transmitter 8.5 .<br>12.5 kW   |              |              |     |     |     |
|---|--------------|--------------|-----|-----|-----|
| High VHF -<br>Liquid Cooled   | \$447,500.00 | \$312,938.00 | N/A | N/A | N/A |
| Other Electrical<br>Service: Inside<br>building work for<br>conduit and wire<br>to new main<br>transmitter. | \$15,000.00  | \$15,000.00  | N/A | N/A | N/A |
| Transformer 3<br>phase/480v -<br>300 KVA  | \$36,800.00  | \$35,000.00  | N/A | N/A | N/A |

#### Components

#### **Antennas**

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

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Interim<br>Antenna TLSV8   | \$95,892.00                    | \$93,152.00       |                                    | \$0.00         |                              |
| High VHF -<br>High Power<br>Side Mount<br>One Station<br>elliptically or<br>circularly<br>polarized                            | \$60,752.00                    | \$60,752.00       | N/A                                | N/A            | N/A                          |
| Sweep test of existing antenna   | \$6,730.00                     | \$6,400.00        | N/A                                | N/A            | N/A                          |
| Side mount<br>brackets for<br>high power<br>antennas (if<br>not included in<br>antenna base<br>cost)                           | \$23,150.00                    | \$22,000.00       | N/A                                | N/A            | N/A                          |
| Pattern scatter<br>analysis for<br>side mount<br>high/med<br>power<br>antennas (if<br>not included in<br>antenna base<br>cost) | \$5,260.00                     | \$4,000.00        | N/A                                | N/A            | N/A                          |
| Primary<br>Antenna THV-<br>12A10/VP-R  | \$361,863.23                   | \$362,001.23      |                                    | \$0.00         |                              |

| complex, single channel, at antenna input, per 6 1 /8. feedline (if needed)  Sweep test of existing antenna  High VHF - High Power Top Mount One Station elliptically or circularly polarized  Top Plate adapter | *40.000.00   | £40.700.00     | Overta fram                      | N/A    | N/A  |
|--|--------------|----------------|----------------------------------|--------|------|
| existing antenna  High VHF - High Power Top Mount One Station elliptically or circularly polarized  Top Plate adapter  | \$12,300.00  | \$12,768.00    | Quote from antenna manufacturer. | IV/A   | IV/A |
| High Power Top Mount One Station elliptically or circularly polarized  Top Plate adapter   | \$6,730.00   | \$6,400.00     | N/A                              | N/A    | N/A  |
| adapter  | 323,281.23   | \$323,281.23   | Quote from<br>Dielectric         | N/A    | N/A  |
| Sub-total \$   | \$19,552.00  | \$19,552.00    | N/A                              | N/A    | N/A  |
|  | 3457,755.23  | \$455,153.23   | N/A                              | \$0.00 | N/A  |
| Total for all \$2 systems  | 2,652,070.23 | \$2,380,762.58 | N/A                              | \$0.00 | N/A  |

#### Components

#### **Transmission Line**

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

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Interim<br>Transmission<br>Line                               | \$18,000.00                    | \$11,789.90       |                                    | \$0.00         |                              |
| Flexible Foam<br>Transmission<br>Line - dielectric,<br>1 5/8" | \$18,000.00                    | \$11,789.90       | N/A                                | N/A            | N/A                          |
| Primary<br>Transmission<br>Line                               | \$404,000.00                   | \$281,510.45      |                                    | \$0.00         |                              |
| Rigid<br>Transmission<br>Line - copper, 6<br>1/8"             | \$404,000.00                   | \$281,510.45      | N/A                                | N/A            | N/A                          |
| Sub-total   | \$422,000.00                   | \$293,300.35      | N/A                                | \$0.00         | N/A                          |
| Total for all systems   | \$2,652,070.23                 | \$2,380,762.58    | N/A                                | \$0.00         | N/A                          |

#### Components

#### **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 Primary Tower TOWER  | Predetermined<br>Cost Estimate<br>\$657,800.00 | Estimated Cost \$741,500.00 | Estimated<br>Cost<br>Justification         | Actual<br>Cost<br>\$0.00 | Actual Cost<br>Justification |
|--|--|-----------------------------|--|--------------------------|------------------------------|
| 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                          |
| Major tower reinforcement /modifications   | \$421,000.00                                   | \$400,000.00                | N/A  | N/A                      | N/A                          |
| Tall Tower<br>(greater than<br>500')   | \$210,500.00                                   | \$316,500.00                | Quote from<br>GTI<br>America.<br>Attached. | N/A                      | N/A                          |
| Sub-total  | \$657,800.00                                   | \$741,500.00                | N/A  | \$0.00                   | N/A                          |
| Total for all systems  | \$2,652,070.23                                 | \$2,380,762.58              | N/A  | \$0.00                   | N/A                          |

#### Components

#### **Outside Professional Services**

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

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Outside<br>Professional<br>Services   | \$205,975.00                   | \$195,250.00      |                                    | \$0.00         |                              |
| Prepare and or review reimbursement form  | \$2,630.00                     | \$2,500.00        | N/A                                | N/A            | N/A                          |
| Address<br>transition timing<br>and coordination<br>issues w/ other<br>stations and<br>wireless | \$2,630.00                     | \$2,500.00        | 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                          |
| Comprehensive coverage verification via field study, if needed                                  | \$84,200.00                    | \$80,000.00       | N/A                                | N/A            | N/A                          |
| RF Exposure<br>Measurements   | \$21,050.00                    | \$20,000.00       | N/A                                | N/A            | N/A                          |
| Project<br>management of<br>the transition  | \$41,080.00                    | \$39,000.00       | 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 |
|---|------------|------------|-----|-----|-----|
| 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 |
| 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 request<br>for Special<br>Temporary<br>Authorization  | \$2,050.00 | \$1,500.00 | 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 | 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), License to Cover Application  | \$2,365.00  | \$2,250.00  | 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 |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet                  | \$10,520.00 | \$10,000.00 | 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 |
| Perform engineering study for new channel assignment and antenna development   | \$7,360.00  | \$7,000.00  | N/A | N/A | N/A |

| ASR<br>modification<br>(prepare FCC<br>Form 854)          | \$2,105.00     | \$2,000.00     | N/A | N/A    | N/A |
|---|----------------|----------------|-----|--------|-----|
| NEPA Section<br>106<br>environmental<br>review, if needed | \$6,310.00     | \$6,000.00     | N/A | N/A    | N/A |
| Sub-total   | \$205,975.00   | \$195,250.00   | N/A | \$0.00 | N/A |
| Total for all systems                                     | \$2,652,070.23 | \$2,380,762.58 | N/A | \$0.00 | N/A |

### Components

#### **Other Expenses**

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

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Other Expenses   | \$40,190.00                    | \$39,585.00       |                                    | \$0.00         |                              |
| MVPD<br>Notification of<br>Channel Change  | \$1,000.00                     | \$1,000.00        | N/A                                | N/A            | N/A                          |
| Equipment<br>Storage   | \$2,000.00                     | \$2,000.00        | N/A                                | N/A            | N/A                          |
| Develop and air announcement of upcoming channel change                              | \$1,000.00                     | \$1,000.00        | N/A                                | N/A            | N/A                          |
| DTV Medical<br>Facility<br>Notification  | \$11,550.00                    | \$11,000.00       | 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                          |
| Local Zoning   | \$1,000.00                     | \$1,000.00        | N/A                                | N/A            | N/A                          |
| Disposal Costs<br>(for equipment<br>and other waste,<br>net of any<br>salvage value) | \$2,000.00                     | \$2,000.00        | N/A                                | N/A            | N/A                          |

| Equipment Delivery and Handling Charges | \$20,000.00    | \$20,000.00    | N/A | N/A    | N/A |
|---|----------------|----------------|-----|--------|-----|
| Sub-total                               | \$40,190.00    | \$39,585.00    | N/A | \$0.00 | N/A |
| Total for all systems                   | \$2,652,070.23 | \$2,380,762.58 | N/A | \$0.00 | N/A |

#### Components

#### **Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|-------------|
| Total for all systems | \$2,652,070.23                 | \$2,380,762.58 | \$0.00      |

| Reimburseme | envestiatus  | Response |
|-------------|--|----------|
|             | The facility has ceased operating on its pre-<br>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       |

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.
- 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.

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 abovenamed applicant for the Authorization(s) specified above. Tom
Morris
Cupp
Bonten
Media Vice
President
of
Engineering

07/11/2017

#### **Attachments**