

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 73195 Service: DTV Call WKYC Channel: 19 (UHF)

Sign:

File **0000028022** 

Number:

ID:

FRN: **0024376642** Date **06/12** 

Submitted: /2019

# Applicant Information

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

| Applicant        | Address                                                                                               | Phone                | Email                  | Applicant Type                  |
|------------------|-------------------------------------------------------------------------------------------------------|----------------------|------------------------|---------------------------------|
| WKYC-<br>TV, LLC | Denise Branson, Sr. Paralegal TEGNA Inc. 8350 Broad Street, Suite 2000 Tysons, VA 22102 United States | +1 (703)<br>873-6606 | dbranson@TEGNA.<br>com | Limited<br>Liability<br>Company |

# 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                   |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------|-------------------------|
| Jeffrey Johnson ,<br>Johnson .<br>Vice President Projects<br>TEGNA | Jeffrey Johnson<br>7950 Jones Branch<br>Drive<br>McLean, VA 22102<br>United States | +1 (703) 873-<br>6736 | jsjohnson@tegna.<br>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                                                                                                                                                                                                                                                                                                                             | WKYC operates on a shared tower with WVIZ. Each stations has separate transmitters antennas and transmission lines. WKYC Will be replacing the Primary and Aux antenna, transmission line and transmitter. |

#### **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                                                      | PWR60 D2                 |
|                                  | Year                                                       | 2008                     |
|                                  | Туре                                                       | Inductive<br>Output Tube |
|                                  | IOT Power Type                                             | Two                      |
|                                  | Power Capacity                                             | 60 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                                     | ULXTE 90                                                                                                                                                                                                                                      |
|                 | Transmitter Type                          | Solid State                                                                                                                                                                                                                                   |
|                 | Solid State Cooling                       | Liquid Cooled                                                                                                                                                                                                                                 |
|                 | Solid State Power capacity                | 56.4 kW                                                                                                                                                                                                                                       |
|                 | Justification for New Transmitter         | Station has in excess of 10% TPO headroom and is eligible for a 1-Step-Up Allowance. Reimbursable TPO is 49.6 kW based on initial 90-day filing CP. This would require a ULXTE-80. A 1-Step-Up is the ULXTE-90 and is therefore reimbursable. |

## Primary Transmitter

#### **Other Transmitter Costs**

| Section            | Question                              | Response |
|--------------------|---------------------------------------|----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | No       |

|                                                                           | Switchgear (industrial 800 amp)                                                              | No                                                                                                                              |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|                                                                           | Transformer (480V)                                                                           | Yes                                                                                                                             |
|                                                                           | Power                                                                                        | 300 kVA                                                                                                                         |
|                                                                           | Rigid Conduit and Wiring                                                                     | Yes                                                                                                                             |
|                                                                           | Size                                                                                         | 3 inches                                                                                                                        |
|                                                                           | Length                                                                                       | 100.0 feet                                                                                                                      |
|                                                                           | Other Electrical Service                                                                     | Yes                                                                                                                             |
|                                                                           | Description                                                                                  | Additional electrical services required for transmitter installation, including heat exchangers transformer cooling pumps, etc. |
| HVAC Service                                                              | Does the replacement transmitter require HVAC Service?                                       | No                                                                                                                              |
|                                                                           | Туре                                                                                         | N/A                                                                                                                             |
|                                                                           | Size                                                                                         | N/A                                                                                                                             |
|                                                                           | Other Size                                                                                   | N/A                                                                                                                             |
| Transmitter Building<br>Addition/Modification or<br>Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leashold improvement? | Yes                                                                                                                             |
|                                                                           | Size                                                                                         | 900.0 squa                                                                                                                      |
| Channel 14 Costs                                                          | Is an RF Consulting Engineer needed?                                                         | N/A                                                                                                                             |
|                                                                           | Is a channel 14 Mask Filer needed?                                                           | N/A                                                                                                                             |
|                                                                           | Is additional field engineering time needed?                                                 | N/A                                                                                                                             |
|                                                                           | Number of Days                                                                               | N/A                                                                                                                             |

# Primary Transmitter

#### **Other Transmitter Cost Not Listed**

| Name                   | Description            |
|------------------------|------------------------|
| RF Accessories         | RF Accessories         |
| Mask Filter            | Mask Filter            |
| Installation and Proof | Installation and Proof |

#### **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                                                      | Auxiliary<br>(Backup)                |
|                              | Description of Use                                               | Use during maintenance or tower work |
|                              | Ownership                                                        | Owned                                |
|                              | Owner                                                            | N/A                                  |
|                              | Site                                                             | N/A                                  |
|                              | Is the existing antenna shared with another station or stations? | No                                   |
|                              | Is the existing antenna directional?                             | Yes                                  |
|                              | Is antenna in operating condition?                               | Yes                                  |
|                              | Is antenna located on or in close proximity to an antenna farm?  | No                                   |
| Existing Antenna             | Class                                                            | Full Power                           |
| Manufacturer and Type        | Mounting                                                         | Side Mount                           |
|                              | Antenna position in stack                                        | Not in Stack                         |
|                              | Polarization                                                     | Horizontal                           |
|                              | 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) | 930.0 kW             |
|---------------------------------|----------------------|
| Manufacturer                    |                      |
| Model                           | TFU24DSC-<br>R 4C150 |
| Year                            | 2008                 |

#### **New Antenna Costs**

| Section                 | Question                                                             | Response                                                       |
|-------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|
| New Antenna Description | Use                                                                  | Auxiliary<br>(Backup)                                          |
|                         | Description of Use                                                   | used during<br>line repair<br>or other<br>tower<br>maintenance |
|                         | 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?                                              | Yes                                                            |
|                         | Will antenna be located on or in close proximity to an antenna farm? | No                                                             |
| New Antenna             | Class                                                                | Full Power                                                     |
| Manufacturer and Types  | Mounting                                                             | Side Mount                                                     |
|                         | Antenna position in stack                                            | Not in Stack                                                   |
|                         | Polarization                                                         | Horizontal                                                     |
|                         | Туре                                                                 | Broadband<br>Slot                                              |
|                         | Number of Stations Supported                                         | 1                                                              |
|                         | Number of Panels/Bays                                                | 24                                                             |
|                         | Lower Limit                                                          | 488.00 MHz                                                     |
|                         | Upper Limit                                                          | 494.00 MHz                                                     |
|                         | Design power capacity in use                                         | 100.0 %                                                        |
|                         | Other Antenna Type                                                   | N/A                                                            |
|                         | ERP: (Effective Radiated Power)                                      | 930.0 kW                                                       |

| Manufacturer                  |                                                                                                                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                         | TFU-24WB-<br>R C160                                                                                                                                                                                                                       |
| Year                          | 2019                                                                                                                                                                                                                                      |
| Justification for New Antenna | Station has a licensed AUX facility and must be replaced. It is necessary to keep station on air during primary antenna replacement & for duration of assigned phase. A TFU-24WB cost is equivalent to a single-channel slot AUX antenna. |

#### **Other Antenna Costs**

| Section                        | Question                                                              | Response |
|--------------------------------|-----------------------------------------------------------------------|----------|
| Combiner for Shared<br>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?                                                                                | Broadband           |
|                          | Feed Line Size                                                                                              | 6 1/8 inches inches |
| Side Mount Brackets      | Do you require the separate purchase of side mount brackets for a high power antenna?                       | Yes                 |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes                 |
| Sweep Test               | Do you require the sweep testing of transmission line and antenna?                                          | Yes                 |

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

| Name     | Description |
|----------|-------------|
| Shipping | \$5,400     |

#### **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?                             | Yes                |
|                              | 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                                        | Bottom             |
|                              | Polarization                                                     | Horizontal         |
|                              | 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)                                  | 868.0 kW           |

| Manufacturer |                          |
|--------------|--------------------------|
| Model        | TFU-<br>20EBT-R<br>4C150 |
| Year         | 2008                     |

#### **New Antenna Costs**

| Section                 | Question                                                             | Response           |
|-------------------------|----------------------------------------------------------------------|--------------------|
| New Antenna Description | Use                                                                  | Primary<br>(Main)  |
|                         | Description of Use                                                   | N/A                |
|                         | Change Type                                                          | Purchase<br>New    |
|                         | Is this a request for upgraded equipment?                            | Yes                |
|                         | Ownership                                                            | Owned              |
|                         | Owner                                                                | N/A                |
|                         | Is antenna shared?                                                   | No                 |
|                         | Is antenna directional?                                              | Yes                |
|                         | Will antenna be located on or in close proximity to an antenna farm? | No                 |
| New Antenna             | Class                                                                | Full Power         |
| Manufacturer and Types  | Mounting                                                             | Top Mount          |
|                         | Antenna position in stack                                            | Bottom             |
|                         | 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)                                      | 911.0 kW           |
|                         | Manufacturer                                                         |                    |
|                         |                                                                      |                    |

| Model                         | TFU-20EBT<br>/VP -R<br>4C150                                                                                                                                                                          |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Year                          | 2019                                                                                                                                                                                                  |
| Justification for New Antenna | Licensed top-mount, bottom-stack antenna cannot be re-tuned for new post-transition frequency and must be replaced. The station is opting to Upgrade the antenna changing to Elliptical polarization. |

#### **Other Antenna Costs**

| Section                        | Question                                                              | Response          |
|--------------------------------|-----------------------------------------------------------------------|-------------------|
| Combiner for Shared<br>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                                                                   |
|---------------|-------------------------------------------------------------------------------|
| New Top Plate | Existing top-plate and/or bolt pattern may not work for new top-mount antenna |
| Shipping      | \$9,800                                                                       |

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

# Auxiliary Transmission

#### **Existing Transmission Line**

| n Line<br>Section                           | Question                                                                   | Response                                       |
|---------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|
| Existing Transmission Line Description      | Type of change                                                             | Purchase<br>New                                |
|                                             | Use                                                                        | Auxiliary<br>(Backup)                          |
|                                             | Description of Use                                                         | backup for<br>tower work<br>and<br>maintenance |
|                                             | 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 | Manufacturer                                                               |                                                |
| Туре                                        | 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                                                                     | 1160 feet<br>per run                           |

#### **New Transmission Line**

# Auxiliary Transmission

| Section                        | Question                                  | Response                                                                                                                                                     |
|--------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| New Transmission Line<br>Costs | Use                                       | Auxiliary<br>(Backup)                                                                                                                                        |
|                                | Description of Use                        | Backup for<br>maintenance<br>and tower<br>work                                                                                                               |
|                                | 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 3/4 inches                                                                                                                                                |
|                                | Other Segment Length                      | N/A                                                                                                                                                          |
|                                | Number of parallel runs                   | 1                                                                                                                                                            |
|                                | Length                                    | 875 feet per<br>run                                                                                                                                          |
|                                | Justification for New Transmission Line   | Existing AUX TX line will not work on new channel assignment. Therefore, station must replace existing AUX TX line with new 19-3/4 ft section line for CH19. |

# Auxiliary Transmission

## Other Transmission Line Expenses Not Listed

| n Line        | Description                                                                 |  |
|---------------|-----------------------------------------------------------------------------|--|
| TX Line Sweep | Sweep required to verify post-transition channel measures well on new line. |  |

# Primary Transmission Line

#### **Existing Transmission Line**

| on 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? | No                   |
|                                        | Is Transmission Line in operating condition?                               | Yes                  |
| Existing Transmission                  | Manufacturer                                                               |                      |
| Line Manufacturer and<br>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                                                                     | 1170 feet<br>per run |

#### **New Transmission Line**

# Primary Transmission

Ne

| Section                        | Question                                  | Response                                                                                                                                                                                                                             |
|--------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| New Transmission Line<br>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                            | 20 inches                                                                                                                                                                                                                            |
|                                | Other Segment Length                      | N/A                                                                                                                                                                                                                                  |
|                                | Number of parallel runs                   | 1                                                                                                                                                                                                                                    |
|                                | Length                                    | 1170 feet<br>per run                                                                                                                                                                                                                 |
|                                | Justification for New Transmission Line   | Existing 6-1 /8" rigid transmission line uses section lengths that are prohibited for post- transition Channel 19. Therefore, station must replace existing line with new 6-1 /8" rigid transmission line made up of 20 ft sections. |

#### **Primary**

## Other Transmission Line Expenses Not Listed

| Transmission | Description   |                                                                             |
|--------------|---------------|-----------------------------------------------------------------------------|
|              | TX Line Sweep | Sweep required to verify post-transition channel measures well on new line. |

# 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 Description                          | Type of change                                          | Modify<br>Existing   |
|                                                     | Tower Use                                               | Primary<br>(Main)    |
|                                                     | Description of Use                                      | N/A                  |
|                                                     | Ownership                                               | Owned                |
|                                                     | Is this tower consider Complex?                         |                      |
|                                                     | Is this tower currently shared with any other stations? | Yes                  |
|                                                     | One or more FM, AM or TV radio broadcaster(s)           | Yes                  |
|                                                     | Others Types of Users                                   | No                   |
|                                                     | Is tower documented for structural analysis?            | No                   |
|                                                     | Is tower compliant with Rev G?                          | Yes                  |
| Existing Tower Structure                            | Do you have a tower registration number?                | Yes                  |
| Registration                                        | ASR Number                                              | 1265403              |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)                                        | 41° 23'<br>09.9" N-  |
|                                                     | Longitude (NAD83)                                       | 081° 41'<br>20.7" W- |
|                                                     | Overall Structure Height                                | 912.06 feet          |
|                                                     | Support Structure Height                                | 912.06 feet          |
|                                                     | Ground Elevation Above Mean Sea Level (AMSL)            | 1040.01 fee          |

| Structure Type   | TOWER -<br>Free<br>Standing or<br>Guyed<br>Structure |
|------------------|------------------------------------------------------|
| Tower Owner      | 6600<br>Broadview<br>LLC                             |
| Date Constructed | 06/05/2009                                           |

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 |
|-------------|-----------|---------|
| 18753       | WVIZ      | DTV     |

#### 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                     | Other    |
| Helicopter Services<br>Required | Are helicopter services required? | No       |

Primary Tower Other Tower Expenses Not Listed

Information not provided.

Outside Professional

| Section                                                  | Question                                                                     | Response                                                                                                                                                                                                                               |
|----------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Services Costs<br>Outside Project<br>Management Services | Do you require outside project management services?                          | Yes                                                                                                                                                                                                                                    |
|                                                          | Number of Hours                                                              | 1000                                                                                                                                                                                                                                   |
|                                                          | Explanation                                                                  | It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399s. Station does not have available personnel or personnel trained in project management for such complex projects. |
| Outside RF consulting Engineering Services               | Perform engineering study for new channel assignment and antenna development | Yes                                                                                                                                                                                                                                    |
|                                                          | Prepare engineering section of Form FCC Construction Permit Application      | Yes                                                                                                                                                                                                                                    |
|                                                          | For Auxiliary Facility                                                       | Yes                                                                                                                                                                                                                                    |
|                                                          | For Main Facility                                                            | Yes                                                                                                                                                                                                                                    |
|                                                          | Prepare engineering section of Form FCC License to Cover Application         | Yes                                                                                                                                                                                                                                    |
|                                                          | For Auxiliary Facility                                                       | Yes                                                                                                                                                                                                                                    |
|                                                          | For Main Facility                                                            | Yes                                                                                                                                                                                                                                    |
|                                                          | Prepare request for Special Temporary Authority                              | Yes                                                                                                                                                                                                                                    |

|                                       | Quantity                                                                                   | 2   |
|---------------------------------------|--------------------------------------------------------------------------------------------|-----|
|                                       | 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 Authority                                            | Yes |
|                                       | Quantity                                                                                   | 2   |
|                                       | NEPA Section 106 environmental review                                                      | No  |
|                                       | Environmental Assessment                                                                   | No  |
|                                       | ASR Modification                                                                           | Yes |
|                                       | FAA Consultation (including preparation of FAA Form 7460)                                  | Yes |
|                                       | Negotiation of Lease and other Matter for Shared Locations                                 | 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                                                       | Yes |
|                                       |                                                                                            |     |

| Justification  \$2,500 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                               |

#### Outside Professional

# Other Professional Services Expenses Not Listed

| Services Costs         | Description                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------|
| Installation Services  | This cost originally listed under installation services. Relocated per FCC staff instructions. |
| Pre filing site review | outside engineering firm to review facilities before filling                                   |
| Other Legal Services   | Other Legal Services related to the DTV Repack                                                 |

# Other Expenses

| Section                         | Question                                                                                                             | Response |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| AM Pattern Disturbance          | Is an Impact Study needed?                                                                                           | Yes      |
|                                 | Is Remediation needed?                                                                                               | Yes      |
| 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                                                                                                   | 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<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

## Other Expenses Not Listed

| Name           | Description               |  |
|----------------|---------------------------|--|
| Internal labor | Local and Corporate Labor |  |

# **Cost Information**

#### **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 Cost    | Actual Cost<br>Justification |
|----------------------------------------------|--------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|
| Primary<br>Transmitter<br>ULXTE 90           | \$2,870,377.21                 | \$2,468,685.20    |                                                                                                                       | \$1,442,800.85 |                              |
| Installation and Proof                       | \$82,198.75                    | \$82,198.75       | See Gates<br>Air ULXTE-<br>90 quote                                                                                   | \$40,845.25    | N/A                          |
| Mask Filter                                  | \$70,609.60                    | \$70,609.60       | Per instructions of FCC staff, station is breaking out cost of Mask Filter.                                           | \$35,304.79    | N/A                          |
| Other<br>Building<br>Addition<br>Size: 900.0 | \$809,675.00                   | \$809,675.00      | 900 square foot expansion for new transmitter, including professional fees. See attached WKYC Building justification. | \$617,647.72   | N/A                          |

| Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | \$25,000.00    | \$25,000.00    | Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | \$14,190.00    | N/A |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|
| 3" Rigid<br>Conduit and<br>Wiring (Cost<br>per foot)                                                                                                         | \$5,200.00     | \$4,900.00     | N/A                                                                                                                                | N/A            | N/A |
| Transformer<br>3 phase<br>/480v - 300<br>KVA                                                                                                                 | \$36,800.00    | \$14,866.49    | N/A                                                                                                                                | \$5,737.19     | N/A |
| UHF - Liquid<br>Cooled Solid<br>State<br>Transmitter<br>52 - 61 kW                                                                                           | \$1,788,000.00 | \$1,408,541.50 | Replacement<br>per Gates Air<br>quote.<br>Includes TAX                                                                             | \$704,210.93   | N/A |
| RF<br>Accessories                                                                                                                                            | \$52,893.86    | \$52,893.86    | Please see<br>Gates Air<br>ULXTE-90<br>quote                                                                                       | \$24,864.97    | N/A |
| Sub-total                                                                                                                                                    | \$2,870,377.21 | \$2,468,685.20 | N/A                                                                                                                                | \$1,442,800.85 | N/A |
| Total for all systems                                                                                                                                        | \$5,375,156.76 | \$4,786,655.05 | N/A                                                                                                                                | \$2,396,178.18 | N/A |

# Components

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

|             | Component Description: | Gates inv            |
|-------------|------------------------|----------------------|
|             |                        | #JW30004450-1A       |
|             |                        | TX Install 1 6th dp  |
|             |                        | UL20190214jgv1       |
|             | Amount:                | \$13,615.08          |
|             | Component Description: | Inv JW30004450-1     |
|             |                        | WKYC TX Install 1    |
|             |                        | 3rd dp               |
|             |                        | UL20180713jg v1      |
|             | Amount:                | \$27,230.17          |
| Mask Filter |                        |                      |
|             | Component Description: | Inv JW30004450-1     |
|             |                        | WKYC TX Mask         |
|             |                        | Filter 1 3rd dp      |
|             |                        | UL20180713jg v1      |
|             | Amount:                | \$23,536.53          |
|             | Component Description: | Gates inv            |
|             | Component Description. | #JW30004450-1A       |
|             |                        | TX Mask Filter 1 6th |
|             |                        | dp UL20190214jgv1    |
|             | Amount:                | \$11,768.26          |
|             | Amount:                | Φ11,/00.∠0           |

Other -- Building Addition

Size: 900.0

Component Description: Donleys inv #1105-

01 TX Bldg Addition UL20181106jgv1

**Amount:** \$119,311.20

Component Description: Donleys inv #1105-

02 TX Bldg Addition

pmt 2

UL20190130jgv1

**Amount:** \$241,164.27

Component Description: WKYC Osborn inv

#29512 Civil Eng UL20180815jg v1

**Amount:** \$7,457.20

Component Description: WKYC Osborn inv

#29267 Civil Eng UL20180801jg v2

**Amount:** \$3,909.60

Component Description: Donleys inv #1105-

03 TX Bldg Addition

pmt 3

UL20190402jgv1

**Amount:** \$242,920.58

Component Description: Inv 265370 WKYC

Design Devel UL20180705jg v1

**Amount:** \$2,884.87

Component Description: Vocon inv #265447

Design Devel UL20181026jg v1

**Amount:** \$5,476.41

| Other Electrical Service: Additional electrical services required for transmitter installation, including heat exchangers, transformers, cooling pumps, etc. | Component Description: Amount: | Vocon inv #267251<br>Tech Eng Srvcs<br>UL20190222jgv1<br>\$14,190.00    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------|
| 3" Rigid Conduit and<br>Wiring (Cost per foot)                                                                                                               | Information not provided.      |                                                                         |
| Transformer 3 phase/480v - 300 KVA                                                                                                                           | Component Description:         | Gates inv<br>#JW30004450-1A<br>TX Electrical 1 6th<br>dp UL20190214jgv1 |
|                                                                                                                                                              | Amount:                        | \$1,912.39                                                              |
|                                                                                                                                                              | Component Description:         | Inv JW30004450-1<br>WKYC TX Electrical<br>1 3rd dp<br>UL20180713jg v1   |
|                                                                                                                                                              | Amount:                        | \$3,824.80                                                              |
| UHF - Liquid Cooled Solid<br>State Transmitter 52 - 61<br>kW                                                                                                 | Component Description:         | Gates inv<br>#JW30004450-1A<br>Transmitter 1 6th dp                     |
|                                                                                                                                                              | Amount:                        | UL20190214jgv1<br>\$234,736.97                                          |
|                                                                                                                                                              | Component Description:         | Inv JW30004450-1<br>WKYC Transmitter                                    |
|                                                                                                                                                              |                                | 1 3rd dp                                                                |

| RF Accessories |                        |                    |
|----------------|------------------------|--------------------|
|                | Component Description: | Inv JW30004450-1   |
|                |                        | WKYC TX RF         |
|                |                        | accessories 1 3rd  |
|                |                        | dp UL20180713jg v1 |
|                | Amount:                | \$16,576.65        |
|                |                        |                    |
|                | Component Description: | Gates inv          |
|                |                        | #JW30004450-1A     |
|                |                        | TX RF accessories  |
|                |                        | 1 6th dp           |
|                |                        | UL20190214jgv1     |
|                | Amount:                | \$8,288.32         |

#### **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 Cost  | Actual Cost<br>Justification |
|----------------------------------------------------------------------------------------------------------|--------------------------------|-------------------|--------------------------------------------------------------------------------------------------------|--------------|------------------------------|
| Primary<br>Antenna<br>TFU-20EBT<br>/VP -R<br>4C150                                                       | \$340,330.00                   | \$313,570.00      |                                                                                                        | \$252,330.74 |                              |
| Shipping                                                                                                 | \$6,800.00                     | \$6,800.00        | N/A                                                                                                    | N/A          | N/A                          |
| New Top<br>Plate                                                                                         | \$25,000.00                    | \$25,000.00       | Existing<br>top-plate<br>and/or bolt<br>pattern<br>may not<br>work for<br>new top-<br>mount<br>antenna | N/A          | N/A                          |
| Elbow<br>complex,<br>single<br>channel, at<br>antenna<br>input, per 6<br>1/8.<br>feedline (if<br>needed) | \$12,300.00                    | \$11,700.00       | N/A                                                                                                    | \$9,267.74   | N/A                          |
| Sweep test of existing antenna                                                                           | \$6,730.00                     | \$6,400.00        | N/A                                                                                                    | \$5,760.00   | N/A                          |

| UHF - High<br>Power Top<br>Mount (200-<br>1000 kW),<br>One<br>station<br>antenna,<br>elliptically<br>or circularly<br>polarized      | \$289,500.00 | \$263,670.00 | N/A | \$237,303.00 | N/A |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-----|--------------|-----|
| Auxiliary<br>Antenna<br>TFU-24WB-<br>R C160                                                                                          | \$214,720.00 | \$212,280.00 |     | \$142,103.34 |     |
| Shipping                                                                                                                             | \$5,400.00   | \$5,400.00   | N/A | \$938.34     | N/A |
| Pattern<br>scatter<br>analysis for<br>side mount<br>high/med<br>power<br>antennas<br>(if not<br>included in<br>antenna<br>base cost) | \$5,260.00   | \$5,000.00   | N/A | N/A          | N/A |
| Side mount<br>brackets<br>for high<br>power<br>antennas<br>(if not<br>included in<br>antenna<br>base cost)                           | \$23,150.00  | \$22,000.00  | N/A | N/A          | N/A |
| Elbow<br>complex,<br>broadband,<br>at antenna<br>input, per 6<br>1/8.<br>feedline (if<br>needed)                                     | \$13,700.00  | \$13,000.00  | N/A | N/A          | N/A |

| Sweep test of existing antenna                                                                                                                 | \$6,730.00     | \$6,400.00     | N/A | \$5,760.00     | N/A |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----|----------------|-----|
| UHF - High<br>Power,<br>Side<br>Mount,<br>basic slot<br>antenna,<br>24 bay,,<br>930 kW<br>input,<br>directional,,<br>horizontally<br>polarized | \$160,480.00   | \$160,480.00   | N/A | \$135,405.00   | N/A |
| Sub-total                                                                                                                                      | \$555,050.00   | \$525,850.00   | N/A | \$394,434.08   | N/A |
| Total for<br>all<br>systems                                                                                                                    | \$5,375,156.76 | \$4,786,655.05 | N/A | \$2,396,178.18 | N/A |

| Actual Information Description | File Name                 |
|--------------------------------|---------------------------|
| Shipping                       | Information not provided. |
| New Top Plate                  | Information not provided. |

Elbow complex, single channel, at antenna input, Die inv #MAN01146 **Component Description:** per 6 1/8. feedline (if Elbow complex 45 needed) pct pmt 2 UL20190418jgv1 Amount: \$4,633.87 **Component Description:** Die inv #MAN00845 Elbow complex 45 pct pmt 1 UL20190123jgv1 Amount: \$4,633.87 **Component Description:** Die inv #MAN00845 Elbow complex 45 pct pmt 1 UL20190412jgv3 Amount: \$4,633.87 Sweep test of existing antenna **Component Description:** Die inv #MAN00845

Sweep 45 pct pmt 1 UL20190412jgv3

**Amount:** \$2,880.00

Component Description: Die inv #MAN00845

Sweep 45 pct pmt 1 UL20190123jgv1

**Amount:** \$2,880.00

Component Description: Die inv #MAN01146

Sweep 45 pct pmt 2 UL20190418jgv1

**Amount:** \$2,880.00

| UHF - High Power Top<br>Mount (200-1000 kW),<br>One station antenna,<br>elliptically or circularly<br>polarized | Component Description:    | Die inv #MAN01146 Primary ant 45 pct pmt 2                              |
|-----------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|
|                                                                                                                 | Amount:                   | UL20190418jgv1<br>\$118,651.50                                          |
|                                                                                                                 | Component Description:    | Die inv #MAN00845<br>Primary ant 45 pct<br>pmt 1<br>UL20190412jgv3      |
|                                                                                                                 | Amount:                   | \$118,651.50                                                            |
| Shipping                                                                                                        |                           |                                                                         |
|                                                                                                                 | Component Description:    | Die inv #464003<br>Freight for Sales<br>Order 1696505<br>UL20190418jgv1 |
|                                                                                                                 | Amount:                   | \$938.34                                                                |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)          | Information not provided. |                                                                         |
| Side mount brackets for high power antennas (if not included in antenna base cost)                              | Information not provided. |                                                                         |
| Elbow complex,<br>broadband, at antenna<br>input, per 6 1/8. feedline (if<br>needed)                            | Information not provided. |                                                                         |

| Sweep test of existing antenna                       |                        |                                       |
|------------------------------------------------------|------------------------|---------------------------------------|
| antenna                                              | Component Description: | Die inv #MAN00841<br>Aux sweep 45 pct |
|                                                      |                        | pmt 1                                 |
|                                                      | Amount:                | UL20190124jgv1<br>\$2,880.00          |
|                                                      | Amount                 | Ψ2,000.00                             |
|                                                      | Component Description: | Die inv #MAN00880                     |
|                                                      |                        | Aux sweep 45 pct                      |
|                                                      |                        | pmt 2                                 |
|                                                      |                        | UL20180706jgv1                        |
|                                                      | Amount:                | \$2,880.00                            |
| UHF - High Power, Side<br>Mount, basic slot antenna, |                        |                                       |
| 24 bay,, 930 kW input,                               | Component Description: | Die inv #MAN00841                     |
| directional,, horizontally                           |                        | Aux TX ant 45 pct                     |
| polarized                                            |                        | pmt 1<br>UL20190124jgv1               |
|                                                      | Amount:                | \$67,702.50                           |
|                                                      |                        | <b>4</b> 01,102                       |
|                                                      | Component Description: | Die inv #MAN00880                     |
|                                                      |                        | Aux TX ant 45 pct                     |
|                                                      |                        | pmt 2                                 |
|                                                      |                        | UL20180706jgv1                        |
|                                                      | Amount:                | \$67,702.50                           |

#### **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 Cost    | Actual Cost<br>Justification |
|---------------------------------------------------|--------------------------------|-------------------|-----------------------------------------------------------|----------------|------------------------------|
| Primary<br>Transmission<br>Line                   | \$242,740.00                   | \$161,636.90      |                                                           | \$140,541.54   |                              |
| TX Line<br>Sweep                                  | \$6,400.00                     | \$6,400.00        | N/A                                                       | N/A            | N/A                          |
| Rigid<br>Transmission<br>Line -<br>copper, 6 1/8" | \$236,340.00                   | \$155,236.90      | Dielectric's<br>transmission<br>line prices<br>increased. | \$140,541.54   | N/A                          |
| Auxiliary<br>Transmission<br>Line                 | \$183,150.00                   | \$168,493.40      |                                                           | \$145,884.06   |                              |
| TX Line<br>Sweep                                  | \$6,400.00                     | \$6,400.00        | N/A                                                       | N/A            | N/A                          |
| Rigid<br>Transmission<br>Line -<br>copper, 6 1/8" | \$176,750.00                   | \$162,093.40      | Dielectric's<br>transmission<br>line prices<br>increased. | \$145,884.06   | N/A                          |
| Sub-total                                         | \$425,890.00                   | \$330,130.30      | N/A                                                       | \$286,425.60   | N/A                          |
| Total for all systems                             | \$5,375,156.76                 | \$4,786,655.05    | N/A                                                       | \$2,396,178.18 | N/A                          |

| Actual Information Description | File Name                 |
|--------------------------------|---------------------------|
| TX Line Sweep                  | Information not provided. |

| Rigid Transmission Line - |                           |                                           |
|---------------------------|---------------------------|-------------------------------------------|
|                           | Component Description:    | Die inv #MAN01146<br>Main line 45 pct pmt |
|                           |                           | 2 UL20190418jgv1                          |
|                           | Amount:                   | \$69,856.61                               |
|                           | Component Description:    | Die inv #MAN00845                         |
|                           |                           | Main line 45 pct pmt<br>1 UL20190123jgv1  |
|                           | Amount:                   | \$69,856.61                               |
|                           | Component Description:    | Die inv #MAN00845                         |
|                           |                           | Main line 45 pct pmt<br>1 UL20190412jgv3  |
|                           | Amount:                   | \$69,856.61                               |
|                           | Component Description:    | Die inv #444012                           |
|                           |                           | Cut TX line pc<br>freight                 |
|                           | Amount:                   | UL20190328jgv1<br>\$828.32                |
| TX Line Sweep             | Information not provided. |                                           |
| Rigid Transmission Line - |                           |                                           |
| copper, 6 1/8"            | Component Description:    | Die inv #MAN00880                         |
|                           |                           | Aux line 45 pct pmt<br>2 UL20180706jgv1   |
|                           | Amount:                   | \$72,942.03                               |
|                           | Component Description:    | Die inv #MAN00841                         |
|                           |                           | Aux line 45 pct pmt                       |
|                           |                           | 1 UL20190124jgv1                          |
|                           | Amount:                   | \$72,942.03                               |

#### **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>\$868,300.00 | Estimated<br>Cost<br>\$825,000.00 | Estimated<br>Cost<br>Justification | Actual Cost<br>\$233,792.45 | Actual Cost<br>Justification |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------|------------------------------------|-----------------------------|------------------------------|
| Major tower reinforcement /modifications                                                                                   | \$421,000.00                                   | \$400,000.00                      | N/A                                | \$233,792.45                | N/A                          |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | \$26,300.00                                    | \$25,000.00                       | N/A                                | N/A                         | N/A                          |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas)                                      | \$421,000.00                                   | \$400,000.00                      | N/A                                | N/A                         | N/A                          |
| Sub-total                                                                                                                  | \$868,300.00                                   | \$825,000.00                      | N/A                                | \$233,792.45                | N/A                          |
| Total for all systems                                                                                                      | \$5,375,156.76                                 | \$4,786,655.05                    | N/A                                | \$2,396,178.18              | N/A                          |

| <b>Actual Information</b> |           |  |
|---------------------------|-----------|--|
| Description               | File Name |  |

| Major tower reinforcement /modifications                                                                                  | Component Description:    | Warmus 17975 |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------|
|                                                                                                                           |                           | v190514jgv1  |
|                                                                                                                           | Amount:                   | \$233,792.45 |
| Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study | Information not provided. |              |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas)                                     | Information not provided. |              |

#### **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 Cost | Actual Cos |
|--------------------------------------------------------|--------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|
| Outside<br>Professional<br>Services                    | \$487,088.55                   | \$470,543.55      |                                                                                                                                                                                                                                                                | \$34,720.80 |            |
| Other Legal<br>Services                                | \$10,000.00                    | \$10,000.00       | Other Legal<br>Services<br>related to the<br>DTV Repack                                                                                                                                                                                                        | \$279.38    | N/A        |
| Pre filing site review                                 | \$20,000.00                    | \$20,000.00       | N/A                                                                                                                                                                                                                                                            | N/A         | N/A        |
| Installation<br>Services                               | \$95,293.55                    | \$95,293.55       | N/A                                                                                                                                                                                                                                                            | N/A         | N/A        |
| Additional Field<br>Engineering<br>Service, 20<br>Days | \$50,000.00                    | \$50,000.00       | \$2,500 per site visit including expenses x 20 days. It is necessary to survey the site, plan the equipment, develop specifications for purchasing, & oversee multiple vendor RF projects. Station does not have available personnel trained in such services. | N/A         | N/A        |

| RF Exposure<br>Measurements                                                                                                | \$21,050.00 | \$20,000.00 | 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 |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | \$2,105.00  | \$2,000.00  | N/A | N/A | N/A |
| ASR<br>modification<br>(prepare FCC<br>Form 854)                                                                           | \$2,105.00  | \$2,000.00  | N/A | N/A | N/A |
| Attorney Fees - Prepare and File request for Special Temporary Authorization                                               | \$7,360.00  | \$7,000.00  | N/A | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application                                        | \$2,365.00  | \$2,250.00  | N/A | N/A | N/A |
| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application                         | \$4,210.00  | \$4,000.00  | N/A | N/A | N/A |

| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application                                  | \$5,260.00 | \$5,000.00 | N/A | N/A | N/A |
|-------------------------------------------------------------------------------------------------------------------------|------------|------------|-----|-----|-----|
| Prepare request for Special Temporary Authorization                                                                     | \$4,100.00 | \$3,000.00 | N/A | N/A | N/A |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application    | \$1,580.00 | \$1,500.00 | N/A | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application                                       | \$1,580.00 | \$1,500.00 | N/A | N/A | N/A |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | \$2,105.00 | \$2,000.00 | N/A | N/A | N/A |

| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application               | \$3,155.00 | \$3,000.00 | 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 |
| Address<br>transition<br>timing and<br>coordination<br>issues w/ other<br>stations and<br>wireless | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |
| Prepare and or review reimbursement form                                                           | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |

| Project               | \$158,000.00   | \$150,000.00   | It will be    | \$34,441.42    | N/A |
|-----------------------|----------------|----------------|---------------|----------------|-----|
| management of         | •              | ·              | necessary to  | •              |     |
| the transition        |                |                | schedule and  |                |     |
|                       |                |                | coordinate    |                |     |
|                       |                |                | multiple      |                |     |
|                       |                |                | vendors,      |                |     |
|                       |                |                | complete      |                |     |
|                       |                |                | progress      |                |     |
|                       |                |                | reports, and  |                |     |
|                       |                |                | update        |                |     |
|                       |                |                | Schedule      |                |     |
|                       |                |                | 399s. Station |                |     |
|                       |                |                | does not      |                |     |
|                       |                |                | have          |                |     |
|                       |                |                | available     |                |     |
|                       |                |                | personnel or  |                |     |
|                       |                |                | personnel     |                |     |
|                       |                |                | trained in    |                |     |
|                       |                |                | project       |                |     |
|                       |                |                | management    |                |     |
|                       |                |                | for such      |                |     |
|                       |                |                | complex       |                |     |
|                       |                |                | projects.     |                |     |
| Sub-total             | \$487,088.55   | \$470,543.55   | N/A           | \$34,720.80    | N/A |
| Total for all systems | \$5,375,156.76 | \$4,786,655.05 | N/A           | \$2,396,178.18 | N/A |

| <b>Actual Information</b> |           |
|---------------------------|-----------|
| Description               | File Name |

| Other Legal Services                                           |                           |                                             |
|----------------------------------------------------------------|---------------------------|---------------------------------------------|
|                                                                | Component Description:    | Covington                                   |
|                                                                |                           | 60805585                                    |
|                                                                |                           | v190513pmv1                                 |
|                                                                | Amount:                   | \$34.53                                     |
|                                                                | Component Description:    | Covington<br>60801032                       |
|                                                                |                           | v190530jgv2                                 |
|                                                                | Amount:                   | \$70.43                                     |
|                                                                | Component Description:    | Covington inv<br>#60796723 Various<br>Legal |
|                                                                | Amount:                   | UL20181024jgv1<br>\$174.42                  |
|                                                                | Component Description:    | Covington<br>60801029                       |
|                                                                |                           | v190513pmv1                                 |
|                                                                | Amount:                   | \$164.44                                    |
|                                                                | Component Description:    | Covington<br>60801032                       |
|                                                                | Amount:                   | v190510pmv1<br>\$77.00                      |
| Pre filing site review                                         | Information not provided. |                                             |
| Installation Services                                          | Information not provided. |                                             |
| Additional Field<br>Engineering Service, 20<br>Days            | Information not provided. |                                             |
| RF Exposure<br>Measurements                                    | Information not provided. |                                             |
| Comprehensive coverage verification via field study, if needed | Information not provided. |                                             |

| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | Information not provided. |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------|
| ASR modification (prepare FCC Form 854)                                                                                    | Information not provided. |
| Attorney Fees - Prepare<br>and File request for<br>Special Temporary<br>Authorization                                      | Information not provided. |
| Attorney Fees -Prepare<br>and File FCC Form 2100<br>(main), License to Cover<br>Application                                | Information not provided. |
| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application                         | Information not provided. |
| Attorney Fees - Prepare<br>and File FCC Form 2100<br>(main), Construction<br>Permit Application                            | Information not provided. |
| Prepare request for<br>Special Temporary<br>Authorization                                                                  | Information not provided. |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application       | Information not provided. |
| Prepare engineering<br>section of FCC Form 2100<br>(main), License to Cover<br>Application                                 | Information not provided. |

| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | Information not provided. |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Prepare engineering<br>section of FCC Form 2100<br>(main), Construction<br>Permit Application                           | Information not provided. |
| Perform engineering study<br>for new channel<br>assignment and antenna<br>development                                   | Information not provided. |
| Address transition timing and coordination issues w/ other stations and wireless                                        | Information not provided. |
| Prepare and or review reimbursement form                                                                                | Information not provided. |

| Project management of | the |
|-----------------------|-----|
| transition            |     |

Component Description: Inv 29214 WKYC

Proj Mgt 180428-

180525

UL20180706jg v1

**Amount:** \$4,350.00

Component Description: Osborn inv #26015

Prof srvcs 170530 -

170728

UL20181107jg v1

**Amount:** \$14,548.92

Component Description: Osborn inv #28997

Proj Mgt March 31, 2018 - April 27,

2018

UL20190212jgv1

**Amount:** \$6,725.00

Component Description: Osborn inv #28588

Proj Mgt thru March

30, 2018

UL20180815jgv1

**Amount:** \$975.00

Component Description: Osborn inv #29833

Prof srvcs 180526 -

180629

UL20190207jgv1

**Amount:** \$7,842.50

#### **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<br>Cost | Cost<br>Justification                                                          | Actual Cost | Actual Cost Justification |
|--------------------------------------------------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------------------|-------------|---------------------------|
| Other<br>Expenses                                                        | \$168,451.00                | \$166,446.00      |                                                                                | \$4,004.40  |                           |
| Internal labor                                                           | \$24,231.00                 | \$24,231.00       | N/A                                                                            | N/A         | N/A                       |
| MVPD  Notification of Channel Change                                     | \$6,000.00                  | \$6,000.00        | to notify all MVPD's op up coming testing and transition plans for the market. | N/A         | N/A                       |
| Develop and air announcement of upcoming channel change                  | \$6,000.00                  | \$6,000.00        | To create informational spot to notify public of the upcoming change.          | \$3,270.00  | N/A                       |
| Equipment<br>Storage                                                     | \$15,000.00                 | \$15,000.00       | 2 flat bed<br>trailers for 6<br>Months to<br>store<br>equipment.               | \$734.40    | N/A                       |
| Equipment Delivery and Handling Charges                                  | \$25,000.00                 | \$25,000.00       | N/A                                                                            | N/A         | N/A                       |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$25,000.00                 | \$25,000.00       | N/A                                                                            | N/A         | N/A                       |
| Local Zoning                                                             | \$1,200.00                  | \$1,200.00        | Local construction permit.                                                     | N/A         | N/A                       |

| FCC Filing Fees - Special Temporary Authorization request | \$195.00       | \$190.00       | N/A | N/A            | N/A |
|-----------------------------------------------------------|----------------|----------------|-----|----------------|-----|
| FCC Filing Fees - Form 2100 license to cover application  | \$335.00       | \$325.00       | N/A | N/A            | N/A |
| DTV Medical<br>Facility<br>Notification                   | \$11,550.00    | \$11,000.00    | N/A | N/A            | N/A |
| AM Pattern<br>Disturbance<br>Remedy                       | \$21,050.00    | \$20,000.00    | N/A | N/A            | N/A |
| AM Pattern Disturbance Impact study                       | \$7,890.00     | \$7,500.00     | N/A | N/A            | N/A |
| Non-zoning permits                                        | \$25,000.00    | \$25,000.00    | N/A | N/A            | N/A |
| Sub-total                                                 | \$168,451.00   | \$166,446.00   | N/A | \$4,004.40     | N/A |
| Total for all systems                                     | \$5,375,156.76 | \$4,786,655.05 | N/A | \$2,396,178.18 | N/A |
|                                                           |                |                |     |                |     |

| Actual Information Description                          | File Name                       |                                                                                                       |
|---------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------|
| Internal labor                                          | Information not provided.       |                                                                                                       |
| MVPD Notification of Channel Change                     | Information not provided.       |                                                                                                       |
| Develop and air announcement of upcoming channel change | Component Description:  Amount: | 2C Media inv<br>#203806 Creation<br>of channel change<br>announcement<br>UL20181016jgv1<br>\$3,270.00 |

| Equipment Storage                                                        |                           |                         |
|--------------------------------------------------------------------------|---------------------------|-------------------------|
|                                                                          | Component Description:    | PMF 269251              |
|                                                                          | Amount:                   | v190510jgv1<br>\$367.20 |
|                                                                          |                           | <b>V</b>                |
|                                                                          | Component Description:    | PMF 278146              |
|                                                                          |                           | v190612jgv1             |
|                                                                          | Amount:                   | \$367.20                |
| Equipment Delivery and<br>Handling Charges                               | Information not provided. |                         |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |                         |
| Local Zoning                                                             | Information not provided. |                         |
| FCC Filing Fees - Special<br>Temporary Authorization<br>request          | Information not provided. |                         |
| FCC Filing Fees - Form<br>2100 license to cover<br>application           | Information not provided. |                         |
| DTV Medical Facility<br>Notification                                     | Information not provided. |                         |
| AM Pattern Disturbance<br>Remedy                                         | Information not provided. |                         |
| AM Pattern Disturbance<br>Impact study                                   | Information not provided. |                         |
| Non-zoning permits                                                       | Information not provided. |                         |

#### **Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost    |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$5,375,156.76                 | \$4,786,655.05 | \$2,396,178.18 |

| Reimbursem | 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. Jeffrey C Gehman Engineering Associate

06/12/2019

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
  Person signing
  below certifies and
  represents that he
  /she is authorized to
  submit this TV
  Broadcaster
  Relocation Fund
  Reimbursement
  Form on behalf of
  the above-named
  entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

06/12/2019

#### **Attachments**