

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

41674 Service: DTX Call WNDU-TV Channel: 27 (UHF) Facility Sign:

ID:

File 0000028730

Number:

FRN: 0018223693 Date 06/03

> Submitted: /2019

#### **Applicant** Information

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

| Applicant                        | Address   | Phone                | Email                           | Applicant Type               |
|----------------------------------|---|----------------------|---------------------------------|------------------------------|
| GRAY TELEVISION<br>LICENSEE, LLC | Robert Folliard 4370 Peachtree Road Atlanta, GA 30319 United States | +1 (202)<br>750-1585 | Robert.<br>Folliard@gray.<br>tv | Limited 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                    |
|-------------------------|---|-------------------|--------------------------|
| Samuel Hariton Widelity | Samuel Hariton<br>4031 University Dr<br>Suite 100<br>Fairfax, VA 22030<br>United States | +1 (339) 222-8107 | sam.hariton@widelity.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. | No  |
| Briefly describe transition plan   | The station is replacing both the main and aux antenna systems, transmission lines, and transmitters with new hardware. |

#### **Transmitters**

| rs | Section                      | Question                                  | Response |
|----|------------------------------|---|----------|
|    | Transmitter Related Expenses | Do you have transmitter related expenses? | Yes      |

# Auxiliary Transmitter

# **Existing Transmitter Information**

| Section                          | Question   | Response                 |
|----------------------------------|--|--------------------------|
| Existing Transmitter Description | Type of change   | Purchase<br>New          |
|                                  | Use  | Auxiliary<br>(Backup)    |
|                                  | Description of Use   | Backup                   |
|                                  | 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  | DCX Gen 1                |
|                                  | Year   | 1998                     |
|                                  | Туре   | Inductive<br>Output Tube |
|                                  | IOT Power Type   | Two                      |
|                                  | Power Capacity   | 44 kW                    |

# Auxiliary Transmitter

#### **New Transmitter Costs**

| Section         | Question                                  | Response   |
|-----------------|---|--|
| New Transmitter | Use                                       | Auxiliary<br>(Backup)  |
|                 | Change Type                               | Purchase<br>New  |
|                 | Is this a request for upgraded equipment? | Yes  |
|                 | Manufacturer                              |  |
|                 | Model                                     | HPTV-<br>PARLX-U32   |
|                 | Transmitter Type                          | Solid State  |
|                 | Solid State Cooling                       | Liquid<br>Cooled   |
|                 | Solid State Power capacity                | 55 kW  |
|                 | Justification for New Transmitter         | Current Comark DCX Gen 1 from 1998 is not compatible with repack channel 27 and no available parts due to being discontinued |

# Auxiliary Transmitter

#### **Other Transmitter Costs**

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

|   | Rigid Conduit and Wiring   | No   |
|---|--|--|
|   | Size   | N/A  |
|   | Length   | N/A  |
|   | Other Electrical Service   | Yes  |
|   | Description  | The new transmitter was require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. |
| HVAC Service  | Does the replacement transmitter require HVAC Service?                                       | Yes  |
|   | Туре   | Cooling Only   |
|   | Size   | 10 tons  |
|   | Other Size   | N/A  |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leashold improvement? | No   |
|   | Size   | N/A  |
| Channel 14 Costs  | Is an RF Consulting Engineer needed?   | N/A  |
|   | Is a channel 14 Mask Filer needed?   | N/A  |
|   | Is additional field engineering time needed?   | N/A  |
|   | Number of Days   | N/A  |

# Auxiliary Transmitter

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

| Name               | Description   |
|--------------------|---|
| Internal RF System | A new internal RF System is necessary for this Auxiliary Transmitter. |

# 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  | DCX<br>Generation        |
|                                  | Year   | 1998                     |
|                                  | Туре   | Inductive<br>Output Tube |
|                                  | IOT Power Type   | Two                      |
|                                  | Power Capacity   | 49 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                                     | HPTV-<br>PARLX-U32  |
|                 | Transmitter Type                          | Solid State   |
|                 | Solid State Cooling                       | Liquid Cooled   |
|                 | Solid State Power capacity                | 55 kW   |
|                 | Justification for New Transmitter         | Per manufacturer Current Comark DCX Gen 1 from 1998 is not compatible with repack channel 27 and no available parts due to being discontinued |

# Primary Transmitter

# **Other Transmitter Costs**

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

|   | Rigid Conduit and Wiring   | No   |
|---|--|--|
|   | Size   | N/A  |
|   | Length   | N/A  |
|   | Other Electrical Service   | Yes  |
|   | Description  | The new transmitter was require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. |
| HVAC Service  | Does the replacement transmitter require HVAC Service?                                       | No   |
|   | Туре   | N/A  |
|   | Size   | N/A  |
|   | Other Size   | N/A  |
| Transmitter Building Addition/Modification or Leasehold | Does the Transmitter Building require an addition, modification, other leashold improvement? | No   |
| Improvement   | Size   | N/A  |
| Channel 14 Costs  | Is an RF Consulting Engineer needed?   | N/A  |
|   | Is a channel 14 Mask Filer needed?   | N/A  |
|   | Is additional field engineering time needed?   | N/A  |
|   | Number of Days   | N/A  |

# Primary Transmitter

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

| Name               | Description   |
|--------------------|---|
| Renovation         | Necessary interior wall work for transmitter building |
| Ice shield         | Fencing extension for Interim heat exchanger          |
| Site Survey        | Basic site survey by GatesAir                         |
| Transmitter Remote | Remote controls for transmitter                       |

#### **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   | Backup                |
|                              | Ownership  | Owned                 |
|                              | Owner  | N/A                   |
|                              | Site   | N/A                   |
|                              | Is the existing antenna shared with another station or stations? | No                    |
|                              | Is the existing antenna directional?                             | No                    |
|                              | Is antenna in operating condition?                               | Yes                   |
|                              | Is antenna located on or in close proximity to an antenna farm?  | No                    |
| Existing Antenna             | Class  | Full Power            |
| Manufacturer and Type        | Mounting   | Top Mount             |
|                              | Antenna position in stack  | Not in Stack          |
|                              | Polarization   | Horizontal            |
|                              | Туре   | Broadband<br>Panel    |
|                              | Number of Stations Supported                                     | 1                     |
|                              | Number of Panels   | 32                    |
|                              | Design power capacity in use                                     | 100.0 %               |
|                              | Lower Limit  | 638.00 MHz            |
|                              | Upper Limit  | 644.00 MHz            |
|                              | Other Antenna Type   | N/A                   |
|                              | ERP: (Effective Radiated Power)                                  | 631.0 kW              |

| Manufacturer |            |
|--------------|------------|
| Model        | TUP-04-8-1 |
| Year         | 1995       |

#### **New Antenna Costs**

| Section                 | Question   | Response              |
|-------------------------|--|-----------------------|
| New Antenna Description | Use  | Auxiliary<br>(Backup) |
|                         | Description of Use   | Backup                |
|                         | 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?  | No                    |
|                         | Will antenna be located on or in close proximity to an antenna farm? | No                    |
| New Antenna             | Class  | Full Power            |
| Manufacturer and Types  | Mounting   | Top Mount             |
|                         | Antenna position in stack  | Not in Stack          |
|                         | Polarization   | Elliptical            |
|                         | Туре   | Broadband<br>Panel    |
|                         | Number of Stations Supported   | 1                     |
|                         | Number of Panels/Bays  | 32                    |
|                         | Lower Limit  | 548.00 MHz            |
|                         | Upper Limit  | 644.00 MHz            |
|                         | Design power capacity in use   | 100.0 %               |
|                         | Other Antenna Type   | N/A                   |
|                         | ERP: (Effective Radiated Power)                                      | 573.0 kW              |
|                         | Manufacturer   |                       |

| Model                         | TUM-04-8<br>/32L-R-T-1   |
|-------------------------------|--|
| Year                          | 2017   |
| Justification for New Antenna | Current Dielectric broadband antenna is discontinued and no longer supported starting in 1997-1998 |

#### **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?                       | No                  |
| Pattern Scatter Analysis       | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No                  |

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

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

| Name              | Description   |
|-------------------|---|
| Top Plate Adapter | Adapter for top of tower to match the bolt pattern of the antenna |

#### **Existing Antenna Information**

| Section                      | Question   | Response                |
|------------------------------|--|-------------------------|
| Existing Antenna Description | Type of change   | Purchase<br>New         |
|                              | Antenna Use  | Primary<br>(Main)       |
|                              | Description of Use   | N/A                     |
|                              | Ownership  | Owned                   |
|                              | Owner  | N/A                     |
|                              | Site   | N/A                     |
|                              | Is the existing antenna shared with another station or stations? | No                      |
|                              | Is the existing antenna directional?                             | No                      |
|                              | Is antenna in operating condition?                               | Yes                     |
|                              | Is antenna located on or in close proximity to an antenna farm?  | No                      |
| Existing Antenna             | Class  | Full Power              |
| Manufacturer and Type        | Mounting   | Top Mount               |
|                              | Antenna position in stack  | Not in Stack            |
|                              | Polarization   | Elliptical              |
|                              | Туре   | Other                   |
|                              | 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   | Travelling<br>Wave Slot |
|                              | ERP: (Effective Radiated Power)                                  | 800.0 kW                |

| Manufacturer |                     |
|--------------|---------------------|
| Model        | ATW33H3-<br>ETO-42H |
| Year         | 2012                |

#### **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?                            | No                      |
|                         | Ownership  | Owned                   |
|                         | Owner  | N/A                     |
|                         | Is antenna shared?   | No                      |
|                         | Is antenna directional?  | No                      |
|                         | Will antenna be located on or in close proximity to an antenna farm? | No                      |
| New Antenna             | Class  | Full Power              |
| Manufacturer and Types  | Mounting   | Top Mount               |
|                         | Antenna position in stack  | Not in Stack            |
|                         | Polarization   | Elliptical              |
|                         | Туре   | Other                   |
|                         | 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   | Travelling<br>Wave Slot |
|                         | ERP: (Effective Radiated Power)                                      | 650.0 kW                |
|                         | Manufacturer   |                         |

| Model                         | TFU-31ETT<br>/VP-R 04   |
|-------------------------------|---|
| Year                          | 2017  |
| Justification for New Antenna | Current ERI antenna single channel on Ch 42, not compatible with repack Ch 27 |

#### **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   |
|-------------------|---|
| Top Plate Adapter | Adapter for the top of the tower to match the bolt pattern of the new antenna |

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

# Auxiliary Transmission Line

#### **Existing Transmission Line**

| on Line<br>Settion                     | Question   | Response              |
|--|--|-----------------------|
| Existing Transmission Line Description | Type of change   | Purchase<br>New       |
|  | Use  | Auxiliary<br>(Backup) |
|  | Description of Use   | Backup                |
|  | 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   | 19 1/2 inches         |
|  | Other Segment Length   | N/A                   |
|  | Number of parallel runs  | 1                     |
|  | Length   | 1040 feet<br>per run  |

# Auxiliary Transmis

#### **New Transmission Line**

| ansmissio                      | n Line<br>Section | Question                                  | Response   |
|--------------------------------|-------------------|---|--|
| New Transmission Line<br>Costs |                   | Use                                       | Auxiliary<br>(Backup)                                |
|                                |                   | Description of Use                        | Backup   |
|                                |                   | 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                            | Broadband  |
|                                |                   | Other Segment Length                      | N/A  |
|                                |                   | Number of parallel runs                   | 1  |
|                                |                   | Length                                    | 1040 feet<br>per run                                 |
|                                |                   | Justification for New Transmission Line   | Current 19.5' sections are not compatible with Ch 27 |

Other Transmission Line Expenses Not Listed Auxiliary Other Transmission
Transmission to inetion not provided.

# Primary Transmission Line

#### **Existing Transmission Line**

| n Line<br>Settion                      | 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   | 19 1/2 inches        |
|  | Other Segment Length   | N/A                  |
|  | Number of parallel runs  | 1                    |
|  | Length   | 1035 feet<br>per run |

# Primary Transmi

#### **New Transmission Line**

| smissioi | n Line<br>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                                    | 1035 feet<br>per run                                 |
|          |                                | Justification for New Transmission Line   | Current 19.5' sections are not compatible with Ch 27 |

Other Transmission Line Expenses Not Listed Primary
Transmission bination not provided.

# Tower Equipment And Rigging Costs

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

# Auxiliary Tower

# **Existing Tower**

| Section   | Question  | Response              |
|---|---|-----------------------|
| Existing Tower Description                          | Type of change  | Modify<br>Existing    |
|   | Tower Use   | Auxiliary<br>(Backup) |
|   | Description of Use                                      | Backup<br>Tower       |
|   | Ownership   | Owned                 |
|   | Is this tower consider Complex?                         | No                    |
|   | Is this tower currently shared with any other stations? | Yes                   |
|   | One or more FM, AM or TV radio broadcaster(s)           | Yes                   |
|   | Others Types of Users                                   | Yes                   |
|   | Is tower documented for structural analysis?            | Yes                   |
|   | Is tower compliant with Rev G?                          | Yes                   |
| Existing Tower Structure                            | Do you have a tower registration number?                | Yes                   |
| Registration  | ASR Number  | 1027597               |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 41° 36'<br>19.2" N-   |
|   | Longitude (NAD83)                                       | 086° 12'<br>45.0" W-  |
|   | Overall Structure Height                                | 877.94 feet           |
|   | Support Structure Height                                | 839.88 feet           |

| Ground Elevation Above Mean Sea Level (AMSL) | 845.13 feet                        |
|--|------------------------------------|
| Structure Type                               | NTOWER -<br>Multiple<br>Structures |
| Tower Owner                                  | Gray<br>Television<br>Group, Inc.  |
| Date Constructed                             | 06/15/2006                         |

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 |
|-------------|-----------|---------|
| 70459       | WSND-FM   | FM      |
| 41675       | WNDV-FM   | FM      |

#### **Other Types of Users**

| Users         |  |
|---------------|--|
| Amatuer Radio |  |

#### Auxiliary Tower

#### **Tower Modification Costs**

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

#### Auxiliary Tower

#### **Tower Rigging Costs**

| Response |
|----------|
|          |

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

# Auxiliary Tower

# Other Tower Expenses Not Listed

| Name   | Description   |
|--|---|
| Corrosion analysis and ultrasound measurements | Corrosion analysis and ultrasound measurements of lower 480 feet of auxiliary tower |
| Level 1 Foundation study                       | Level 1 Foundation study  |

# 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?                         | No                                 |
|  | Is this tower currently shared with any other stations? | Yes                                |
|  | One or more FM, AM or TV radio broadcaster(s)           | Yes                                |
|  | Others Types of Users                                   | Yes                                |
|  | Is tower documented for structural analysis?            | Yes                                |
|  | Is tower compliant with Rev G?                          | Yes                                |
| Existing Tower Structure                     | Do you have a tower registration number?                | Yes                                |
| Registration                                 | ASR Number  | 1027596                            |
| Coordinates (NAD83 ( North American Datum of | Latitude (NAD83)  | 41° 36′<br>20.0" N-                |
| 1983))                                       | Longitude (NAD83)                                       | 086° 12'<br>46.0" W-               |
|  | Overall Structure Height                                | 1007.86 feet                       |
|  | Support Structure Height                                | 946.84 feet                        |
|  | Ground Elevation Above Mean Sea Level (AMSL)            | 845.13 feet                        |
|  | Structure Type  | NTOWER -<br>Multiple<br>Structures |
|  | Tower Owner   | Gray<br>Television<br>Group, Inc.  |

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 |
|-------------|-----------|---------|
| 41675       | WNDV-FM   | FM      |

#### **Other Types of Users**

| Users |  |
|-------|--|
| ATF   |  |
| FBI   |  |

#### Primary Tower

#### **Tower Modification Costs**

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

#### Primary Tower

#### **Tower Rigging Costs**

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

#### Primary Tower

#### Other Tower Expenses Not Listed

| Name | Description |
|------|-------------|
| Name | Description |

| Level II Corrosion Risk Assessment | Level II Corrosion Risk Assessment |
|------------------------------------|------------------------------------|
| Level I Corrosion Risk Assessment  | Level I Corrosion Risk Assessment  |

#### Outside Professional

| Section  | Question   | Response             |
|--|--|----------------------|
| Services Costs<br>Outside Project<br>Management Services | Do you require outside project management services?                          | Yes                  |
|  | Number of Hours  | 900                  |
|  | Explanation  | Strategic<br>Support |
| 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 Services           | Prepare and file Form FCC Construction Permit Application                    | Yes                  |
|  | For Auxiliary Facility   | Yes                  |
|  | For Main Facility  | Yes                  |
|  | Prepare and file Form FCC License to Cover Application                       | Yes                  |
|  | For Auxiliary Facility   | Yes                  |
|  | For Main Facility  | Yes                  |

|                                  | Prepare request for Special Temporary<br>Authority   | No  |
|----------------------------------|--|-----|
|                                  | Quantity   | N/A |
|                                  | NEPA Section 106 environmental review  | Yes |
|                                  | Environmental Assessment   | Yes |
|                                  | ASR Modification   | Yes |
|                                  | FAA Consultation (including preparation of FAA Form 7460)                                  | Yes |
|                                  | Negotiation of Lease and other Matter for<br>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  | No  |
|                                  | RF exposure measurements   | Yes |
|                                  | Additional Field Engineering Service   | No  |
|                                  | Number of Days   | N/A |
|                                  | Justification  | N/A |

#### Outside Professional

# Other Professional Services Expenses Not Listed

| Services Costs                  | Description    |
|---------------------------------|----------------|
| Attorney Fees and Other Matters | Legal Services |

# 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   | No       |
|                                 | Non-zoning permits   | No       |
|                                 | 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 Not Listed

**Expenses** Information not provided.

#### **Transmitters**

| Description   | Predetermined Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification              | Actual Cost  | Actual C |
|---|-----------------------------|-------------------|---|--------------|----------|
| Primary<br>Transmitter<br>HPTV-PARLX-<br>U32  | \$1,887,343.29              | \$1,332,775.29    |   | \$495,931.43 |          |
| UHF - Liquid<br>Cooled Solid<br>State<br>Transmitter 52<br>- 61 kW  | \$1,788,000.00              | \$1,233,432.00    | Comark quote<br>P#4034WNDU-<br>PARLX-<br>170530 | \$436,800.88 | N/A      |
| Site Survey   | \$15,287.30                 | \$15,287.30       | See attached<br>Comark<br>invoices              | \$15,287.30  | N/A      |
| Ice shield  | \$2,634.34                  | \$2,634.34        | N/A   | N/A          | N/A      |
| Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. | \$62,381.00                 | \$62,381.00       | N/A   | \$32,126.75  | N/A      |
| Renovation  | \$16,050.00                 | \$16,050.00       | N/A   | \$11,716.50  | N/A      |
| Transmitter<br>Remote   | \$2,990.65                  | \$2,990.65        | N/A   | \$0.00       | N/A      |

| Auxiliary<br>Transmitter<br>HPTV-PARLX-<br>U32  | \$1,968,900.00 | \$1,524,994.00 |   | \$1,220,114.33 |     |
|---|----------------|----------------|---|----------------|-----|
| Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. | \$2,000.00     | \$2,000.00     | N/A   | N/A            | N/A |
| 10 Ton system   | \$38,900.00    | \$10,950.00    | See quote<br>from Ideal<br>Consolidated<br>Inc. for 10 ton<br>system          | N/A            | N/A |
| Internal RF<br>System   | \$140,000.00   | \$140,000.00   | N/A   | N/A            | N/A |
| UHF - Liquid<br>Cooled Solid<br>State<br>Transmitter 52<br>- 61 kW  | \$1,788,000.00 | \$1,372,044.00 | Comark quote P#4034WNDU- DCXP2- 170530 Comark quote P#4034WNDU- PARLX- 170530 | \$1,220,114.33 | N/A |
| Sub-total   | \$3,856,243.29 | \$2,857,769.29 | N/A   | \$1,716,045.76 | N/A |
| Total for all systems   | \$7,847,590.29 | \$6,453,665.94 | N/A   | \$2,726,514.02 | N/A |

| Description   | File Name                      |   |
|---|--------------------------------|---|
| UHF - Liquid Cooled Solid<br>State Transmitter 52 - 61 kW                         | Component Description:         | System, WNDL<br>U32 D27 PH2                     |
|   | Amount:                        | \$436,800.88                                    |
| Site Survey   |                                |   |
|   | Component Description: Amount: | Site Survey<br>\$7,980.00                       |
|   | Component Description: Amount: | Basic Site Surv<br>\$7,307.30                   |
| Ice shield  | Information not provided.      |   |
| Other Electrical Service: The new transmitter will require reconfiguration of the | Component Description:         | Run code<br>compliant powe                      |
| electrical service on site.  The electrical work cost has been estimated based on | Amount:                        | \$6,313.00                                      |
| verbal guidance from local electrical contractors.                                | Component Description:         | Add 1200A<br>neutral per Quo<br>#S21-1018       |
|   | Amount:                        | \$25,813.75                                     |
| Renovation  |                                |   |
|   | Component Description:         | Trane/Americar<br>Standard Coolir<br>Units      |
|   | Amount:                        | \$11,716.50                                     |
| Transmitter Remote  |                                |   |
|   | Component Description:         | Remote control<br>New 1st Primar<br>Transmitter |
|   | Amount:                        | \$2,842.77                                      |

| Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site.  The electrical work cost has been estimated based on verbal guidance from local electrical contractors. | Information not provided.      |  |
|--|--------------------------------|--|
| 10 Ton system  | Information not provided.      |  |
| Internal RF System   | Information not provided.      |  |
| UHF - Liquid Cooled Solid<br>State Transmitter 52 - 61 kW  | Component Description: Amount: | 306 Commercial<br>Chain Link<br>\$875.99     |
|  | Component Description: Amount: | System, WNDU<br>U32 D42 PH1<br>\$742,248.37  |
|  | Component Description: Amount: | New Auxiliary<br>Transmitter<br>\$476,989.97 |

#### **Antennas**

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual Cost  | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|------------------------------------|--------------|------------------------------|
| Primary<br>Antenna<br>TFU-31ETT<br>/VP-R 04   | \$313,550.00                   | \$313,688.00      |                                    | \$145,424.38 |                              |
| UHF - High<br>Power Top<br>Mount One<br>Station<br>antenna<br>elliptically<br>or<br>circularly<br>polarized | \$275,000.00                   | \$275,000.00      | Catalog<br>Cost                    | \$124,145.98 | N/A                          |
| Top Plate<br>Adapter  | \$19,520.00                    | \$19,520.00       | N/A                                | \$10,736.00  | 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                    | \$12,768.00       | JEHQ1248-<br>02                    | \$7,022.40   | N/A                          |
| Sweep test of existing antenna  | \$6,730.00                     | \$6,400.00        | N/A                                | \$3,520.00   | N/A                          |
| Auxiliary<br>Antenna<br>TUM-04-8<br>/32L-R-T-1  | \$329,450.00                   | \$196,377.50      |                                    | \$127,338.01 |                              |

| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)   |  |                |                |                                  |                |     |
|---|--|----------------|----------------|----------------------------------|----------------|-----|
| Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized  Sweep test of existing antenna  Top Plate Adapter  \$19,520.00 \$19,520.00 N/A \$15,616.00 N/A \$272,762.39 N/A  Total for all | complex,<br>broadband,<br>at antenna<br>input, per 6<br>1/8.<br>feedline (if                           | \$13,700.00    | \$12,768.00    | N/A                              | \$10,214.40    | N/A |
| of existing antenna  Top Plate  | Power Top<br>Mount<br>(200-1000<br>kW), One<br>station<br>antenna,<br>elliptically<br>or<br>circularly | \$289,500.00   | \$157,689.50   | JEHQ1308<br>& Radome<br>Addition | \$96,387.61    | N/A |
| Sub-total       \$643,000.00       \$510,065.50       N/A       \$272,762.39       N/A         Total for all       \$7,847,590.29       \$6,453,665.94       N/A       \$2,726,514.02       N/A                           | of existing  | \$6,730.00     | \$6,400.00     | N/A                              | \$5,120.00     | N/A |
| Total for \$7,847,590.29 \$6,453,665.94 N/A \$2,726,514.02 N/A all  |  | \$19,520.00    | \$19,520.00    | N/A                              | \$15,616.00    | N/A |
| all   | Sub-total  | \$643,000.00   | \$510,065.50   | N/A                              | \$272,762.39   | N/A |
|   | all  | \$7,847,590.29 | \$6,453,665.94 | N/A                              | \$2,726,514.02 | N/A |

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

| UHF - High Power Top  Mount One Station antenna  elliptically or circularly  polarized | Component Description: | UHF-High Power<br>Top Mount (200-<br>1000KW)  |
|--|------------------------|---|
|  | Amount:                | \$67,715.99                                   |
|  | Component Description: | UHF- High Power<br>Top Mount (200-<br>1000KW) |
|  | Amount:                | \$56,429.99                                   |
| Top Plate Adapter  |                        |   |
|  | Component Description: | Top plate<br>adapter, New<br>Primary Antenna  |
|  | Amount:                | \$5,856.00                                    |
|  | Component Description: | Top Plate<br>Adapter New                      |
|  | Amount:                | Primary Antenna<br>\$4,880.00                 |
| Elbow complex, single  |                        |   |
| channel, at antenna input,<br>per 6 1/8. feedline (if needed)                          | Component Description: | Elbow complex, New Primary                    |
|  | Amount:                | Antenna<br>\$3,830.40                         |
|  | Component Description: | Elbow Complex                                 |
|  |                        | New Primary<br>Antenna                        |
|  | Amount:                | \$3,192.00                                    |

| Sweep test of existing       |                        |                   |
|------------------------------|------------------------|-------------------|
| antenna                      | Component Description: | Sweep Test New    |
|                              |                        | Primary Antenna   |
|                              | Amount:                | \$1,600.00        |
|                              | Component Description: | Sweep test, New   |
|                              |                        | Primary Antenna   |
|                              | Amount:                | \$1,920.00        |
| Elbow complex, broadband,    |                        |                   |
| at antenna input, per 6 1/8. | Component Description: | Auxiliary/Interim |
| eedline (if needed)          |                        | Antenna - Elbow   |
|                              |                        | Complex           |
|                              | Amount:                | \$3,192.00        |
|                              | Component Description: | Auxiliary/Interim |
|                              | Component Description. | Antenna Elbow     |
|                              |                        | Complex           |
|                              | Amount:                | \$3,830.40        |
|                              | Component Description: | Auxiliary/Interim |
|                              | Component Description. | Antenna - Elbow   |
|                              |                        | Complex           |
|                              | Amount:                | \$3,192.00        |

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized

Component Description: New Auxiliary

Amount:

Antenna \$30,121.13

Component Description: New Auxiliary

Antenna

**Amount:** \$30,121.13

Component Description: UHF Broadband

Panel Top mount Aux/Interim TV Antenna

**Amount:** \$36,145.35

Sweep test of existing antenna

Component Description: Auxiliary/Interim

Antenna Sweep

Test

**Amount:** \$1,600.00

**Component Description:** Auxiliary/Interim

Antenna Sweep

Test

**Amount:** \$1,600.00

**Component Description:** Sweep Test

Auxiliary/Interim

Antenna

**Amount:** \$1,920.00

| Component Description: | Auxiliary/Interin |
|------------------------|-------------------|
|                        | Antenna Top       |
|                        | Plate Adapter     |
| Amount:                | \$4,880.00        |
| Component Description: | Auxiliary/Interim |
|                        | Antenna Top       |
|                        | Plate Adapter     |
| Amount:                | \$4,880.00        |
| Component Description: | Auxiliary/Interim |
|                        | Antenna Top       |
|                        | Plate Adapter     |
| Amount:                | \$5,856.00        |

#### **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                                 | \$209,070.00                   | \$152,101.30      |                                    | \$83,655.69    |                              |
| Rigid<br>Transmission<br>Line -<br>copper, 6 1/8"               | \$209,070.00                   | \$152,101.30      | N/A                                | \$83,655.69    | N/A                          |
| Auxiliary<br>Transmission<br>Line                               | \$241,280.00                   | \$190,905.35      |                                    | \$151,763.50   |                              |
| Rigid<br>Transmission<br>Line -<br>copper, 6 1<br>/8" broadband | \$241,280.00                   | \$190,905.35      | N/A                                | \$151,763.50   | N/A                          |
| Sub-total   | \$450,350.00                   | \$343,006.65      | N/A                                | \$235,419.19   | N/A                          |
| Total for all systems   | \$7,847,590.29                 | \$6,453,665.94    | N/A                                | \$2,726,514.02 | N/A                          |

| Actual Information Description              | File Name                      |   |
|---|--------------------------------|---|
| Rigid Transmission Line -<br>copper, 6 1/8" | Component Description: Amount: | New Primary<br>Transmission Line<br>\$45,630.38 |
|   | Component Description: Amount: | New Primary<br>Transmission Line<br>\$38,025.31 |

Rigid Transmission Line - copper, 6 1/8" broadband

Component Description: Auxiliary/Interim

Transmission Line

**Amount:** \$47,426.09

Component Description: Interim

Transmission Line

**Amount:** \$56,911.32

Component Description: Auxiliary/Interim

Transmission Line

**Amount:** \$47,426.09

### **Tower Equipment and Rigging Costs**

|  |                             |                   | Estimated             |              |                              |
|--|-----------------------------|-------------------|-----------------------|--------------|------------------------------|
| Description  | Predetermined Cost Estimate | Estimated<br>Cost | Cost<br>Justification | Actual Cost  | Actual Cost<br>Justification |
| Primary<br>Tower<br>NTOWER   | \$1,280,600.00              | \$1,214,087.50    |                       | \$97,721.25  |                              |
| Serious tower reinforcement /modifications                                       | \$1,052,000.00              | \$1,000,000.00    | N/A                   | \$86,383.75  | N/A                          |
| Level II<br>Corrosion<br>Risk<br>Assessment                                      | \$4,750.00                  | \$4,750.00        | N/A                   | \$2,750.00   | N/A                          |
| Level I<br>Corrosion<br>Risk<br>Assessment                                       | \$750.00                    | \$750.00          | N/A                   | N/A          | N/A                          |
| Tall Tower<br>(greater than<br>500')   | \$210,500.00                | \$200,000.00      | N/A                   | N/A          | N/A                          |
| Structural<br>engineering<br>tower load<br>study for well<br>documented<br>tower | \$12,600.00                 | \$8,587.50        | N/A                   | \$8,587.50   | N/A                          |
| Auxiliary<br>Tower<br>NTOWER   | \$1,281,650.00              | \$1,214,250.00    |                       | \$309,581.25 |                              |
| Tall Tower<br>(greater than<br>500')   | \$210,500.00                | \$200,000.00      | N/A                   | \$180,500.00 | N/A                          |
| Serious tower reinforcement /modifications                                       | \$1,052,000.00              | \$1,000,000.00    | N/A                   | \$115,581.25 | N/A                          |

| Level 1<br>Foundation | \$750.00       | \$750.00       | N/A                    | \$0.00         | N/A |
|-----------------------|----------------|----------------|------------------------|----------------|-----|
| study                 |                |                |                        |                |     |
| Corrosion             | \$5,800.00     | \$5,800.00     | See                    | \$5,800.00     | N/A |
| analysis and          |                |                | attached               |                |     |
| ultrasound            |                |                | invoice and            |                |     |
| measurements          |                |                | purchase<br>order      |                |     |
|                       |                |                | 072617TD               |                |     |
|                       |                |                | 0.201710               |                |     |
| Structural            | \$12,600.00    | \$7,700.00     | Additional             | \$7,700.00     | N/A |
| engineering           |                |                | official               |                |     |
| tower load            |                |                | stamped                |                |     |
| study for well        |                |                | tower                  |                |     |
| documented            |                |                | analysis               |                |     |
| tower                 |                |                | required               |                |     |
|                       |                |                | because of             |                |     |
|                       |                |                | the                    |                |     |
|                       |                |                | addition of radomes to |                |     |
|                       |                |                | aux                    |                |     |
|                       |                |                | antenna,               |                |     |
|                       |                |                | radomes                |                |     |
|                       |                |                | required to            |                |     |
|                       |                |                | reduce                 |                |     |
|                       |                |                | wind                   |                |     |
|                       |                |                | loading                |                |     |
|                       |                |                | and meet               |                |     |
|                       |                |                | tower                  |                |     |
|                       |                |                | loading.               |                |     |
| Sub-total             | \$2,562,250.00 | \$2,428,337.50 | N/A                    | \$407,302.50   | N/A |
| Total for all systems | \$7,847,590.29 | \$6,453,665.94 | N/A                    | \$2,726,514.02 | N/A |

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

### Serious tower reinforcement /modifications

Component Description: Perform sub-

surface soil evaluation on towers -

Mobilization

**Amount:** \$5,696.50

**Component Description:** Tower

reinforcement.
/Modifications-

Primary Tower

**Amount:** \$18,761.31

Component Description: Perform sub-

surface soil evaluation on

towers - Laboratory

Services

**Amount:** \$2,892.00

**Component Description:** Tower

reinforcement & design drawings Existing Primary

Tower

**Amount:** \$2,750.00

**Component Description:** 75% costs of

Tower

Reinforcement /Modification on 945ft Tower (Primary)

**Amount:** \$56,283.94

| Level II Corrosion Risk Assessment                                | Component Description:  Amount: | Corrosion inspection and Ultrasound measurements \$2,750.00                |
|---|---------------------------------|--|
| Level I Corrosion Risk<br>Assessment                              | Information not provided.       |  |
| Tall Tower (greater than 500')                                    | Information not provided.       |  |
| Structural engineering tower load study for well documented tower | Component Description: Amount:  | Structural Engineering Tower Load study \$1,000.00                         |
|   | Component Description:  Amount: | Take measurements for tower modifications and record elevations \$2,137.50 |
|   | Component Description:          | Structural Engineering Tower Load study - Primary Tower                    |
|   | Amount:                         | \$5,450.00   |

| 500')   | Component Description: | Aux TWR Rigging, Antenna & Complete Feedline Removal              |
|---|------------------------|---|
|   | Amount:                | \$133,000.00  |
|   | Component Description: | AUX TWR Rigging,<br>Antenna &<br>Complete feedline<br>removal     |
|   | Amount:                | \$47,500.00   |
| Serious tower reinforcement<br>/modifications | Component Description: | 75% costs Tower   |
|   | Component Description. | Reinforcement<br>/Modification on<br>840ft Tower                  |
|   | Amount:                | (Auxiliary)<br>\$79,771.50  |
|   | Component Description: | Tower Reinforcement /Modification of Auxiliary Tower              |
|   | Amount:                | \$26,590.50   |
|   | Component Description: | Tower Resocket on   |
|   |                        | Level 6 B&C<br>anchor points<br>Auxiliary Tower                   |
|   | Amount:                | \$6,469.25  |
|   | Component Description: | Tower   |
|   |                        | reinforcement &<br>design drawings<br>Existing Auxiliary<br>Tower |
|   | Amount:                | \$2,750.00  |
|   |                        |   |

| Corrosion analysis and                           |                        |                      |
|--|------------------------|----------------------|
| ultrasound measurements                          | Component Description: | Corrosion            |
|  |                        | inspection and       |
|  |                        | Ultrasound           |
|  |                        | measurements -       |
|  |                        | Primary Tower        |
|  | Amount:                | \$2,900.00           |
|  | Component Description: | Corrosion            |
|  |                        | inspection and       |
|  |                        | Ultrasound           |
|  |                        | measurements of      |
|  |                        | tower legs in        |
|  |                        | preparation for      |
|  |                        | design and           |
|  |                        | application of       |
|  |                        | reinforcing required |
|  |                        | for re-pack tower    |
|  |                        | modifications.       |
|  | Amount:                | \$2,900.00           |
| Structural engineering tower load study for well |                        |                      |
| documented tower                                 | Component Description: | Structural Analysis  |
| accumentou tower                                 | Amount:                | \$2,250.00           |
|  | Component Description: | Structural Analysis  |
|  |                        | of Auxiliary Tower   |
|  | Amount:                | \$5,450.00           |

#### **Outside Professional Services**

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|-------------|------------------------------|
| Outside<br>Professional<br>Services  | \$222,925.00                   | \$210,910.00      |                                    | \$77,867.20 |                              |
| Attorney Fees<br>and Other<br>Matters  | \$1,660.00                     | \$1,660.00        | N/A                                | N/A         | N/A                          |
| RF Exposure<br>Measurements  | \$21,050.00                    | \$20,000.00       | 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                                | \$325.00    | N/A                          |
| ASR<br>modification<br>(prepare FCC<br>Form 854)   | \$2,105.00                     | \$2,000.00        | N/A                                | N/A         | N/A                          |
| Environmental<br>Assessment, if<br>triggered by<br>NEPA Section<br>106 review or<br>for certain<br>structures over<br>450 feet | \$10,520.00                    | \$10,000.00       | N/A                                | N/A         | N/A                          |
| NEPA Section<br>106<br>environmental<br>review, if<br>needed   | \$6,310.00                     | \$6,000.00        | 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 | \$1,327.50 | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application                                  | \$5,260.00 | \$5,000.00 | N/A | \$196.50   | 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, Construction Permit Application | \$2,105.00 | \$2,000.00 | N/A | \$800.00   | 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, License to Cover Application | \$1,580.00   | \$1,500.00   | 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 | \$1,625.00  | N/A |
| Project<br>management<br>of the transition   | \$142,200.00 | \$135,000.00 | N/A | \$69,058.20 | N/A |
| Prepare and or review reimbursement form   | \$2,630.00   | \$2,500.00   | N/A | \$1,660.00  | N/A |
| Perform engineering study for new channel assignment and antenna development   | \$7,360.00   | \$7,000.00   | N/A | \$2,875.00  | N/A |

| Address<br>transition<br>timing and<br>coordination<br>issues w/<br>other stations<br>and wireless | \$2,630.00     | \$2,500.00     | N/A | N/A            | N/A |
|--|----------------|----------------|-----|----------------|-----|
| Sub-total  | \$222,925.00   | \$210,910.00   | N/A | \$77,867.20    | N/A |
| Total for all systems  | \$7,847,590.29 | \$6,453,665.94 | N/A | \$2,726,514.02 | N/A |

| Actual Information Description   | File Name                      |  |
|--|--------------------------------|--|
| Attorney Fees and Other Matters  | Information not provided.      |  |
| RF Exposure Measurements   | Information not provided.      |  |
| FAA consultant, including<br>cost of preparing FAA Form<br>7460 (Notice of Proposed<br>Construction), if needed for<br>height increase | Component Description: Amount: | Provide response<br>to FAA project<br>status request<br>\$325.00 |
| ASR modification (prepare FCC Form 854)  | Information not provided.      |  |
| Environmental Assessment,<br>if triggered by NEPA<br>Section 106 review or for<br>certain structures over 450<br>feet                  | Information not provided.      |  |
| NEPA Section 106<br>environmental review, if<br>needed   | Information not provided.      |  |
| Attorney Fees -Prepare and<br>File FCC Form 2100 (main),<br>License to Cover Application   | Information not provided.      |  |

| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application                      | Component Description: Amount:  | Professional<br>Services<br>\$1,327.50                            |
|---|---------------------------------|---|
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application                                  | Component Description: Amount:  | Complete and file repack CP application \$196.50                  |
| Prepare request for Special<br>Temporary Authorization  | Information not provided.       |   |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | Component Description:  Amount: | Develop final technical parameters for auxiliary antenna \$800.00 |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application                                       | 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 section of FCC Form 2100 (main), Construction Permit Application                                    | Component Description: Amount:  | FCC CP<br>application<br>\$1,625.00                               |
| Project management of the transition  | Component Description: Amount:  | Project<br>Management<br>\$28.20                                  |

Component Description:

Project management

Amount:

\$2,817.65

**Component Description:** 

**Project** 

Amount:

Management \$2,022.10

**Component Description:** 

Transition Related

Project

Management

Costs

**Amount:** \$4,050.00

Project

**Component Description:** 

**Component Description:** 

**Component Description:** 

Management

\$2,668.05

Amount:

Amount:

Amount:

Amount:

Project

Management

\$2,471.50

Amount:

Project

Management

\$4,104.40

**Component Description:** 

Project

Management

\$3,752.30

**Component Description:** 

Project

Management

\$2,403.10

**Component Description:** 

**Project** 

management

\$2,471.90

Amount:

Component Description:

Amount:

Project managment

\$1,553.55

**Component Description:** 

Project

Amount:

Management \$3,645.85

**Component Description:** 

Project

Amount:

Management \$2,411.25

**Component Description:** 

**Project** 

Amount:

Management \$3,558.10

**Component Description:** 

Project

Amount:

Management \$755.80

**Component Description:** 

Project

Amount:

Management \$2,813.80

**Component Description:** 

**Project** 

Amount:

Management \$1,813.95

**Component Description:** 

Project

Amount:

Management \$3,129.40

**Component Description:** 

Project

Amount:

Management

\$4,083.75

**Component Description:** 

Amount:

Project

Management

\$2,876.70

**Component Description:** 

Project

Management

Amount:

\$2,725.85

**Component Description:** 

Project

Management

Amount:

\$2,461.65

**Component Description:** 

**Project** 

Amount:

Management

\$3,593.55

**Component Description:** 

Project

Management

\$3,495.95

**Component Description:** 

**Project** 

Management

Amount:

Amount:

\$802.25

**Component Description:** 

**Project** 

Management

Amount: \$

\$2,547.60

Prepare and or review reimbursement form

**Component Description:** 

WNDU-TV (FID

41674) South Bend, IN Repack

\$1,660.00

Amount:

| Perform engineering study<br>for new channel assignment<br>and antenna development | Component Description:    | Perform engineering study for new channel   |
|--|---------------------------|---|
|  | Amount:                   | assignment<br>\$1,950.00  |
|  | Component Description:    | Engineering Study<br>for New Channel<br>Assignment  |
|  | Amount:                   | \$800.00  |
|  | Component Description:    | Review technical details of alternate antenna proposal from RFS regarding topmount on repack Ch-27. |
|  | Amount:                   | \$125.00  |
| Address transition timing and coordination issues w/ other stations and wireless   | Information not provided. |   |

#### **Other Expenses**

| Description  | Predetermined<br>Cost Estimate | Estimated Cost | Estimated<br>Cost<br>Justification   | Actual Cost | Actual Cos |
|--|--------------------------------|----------------|--|-------------|------------|
| Other<br>Expenses  | \$112,822.00                   | \$103,577.00   |  | \$17,116.98 |            |
| MVPD<br>Notification of<br>Channel<br>Change                             | \$1,500.00                     | \$1,500.00     | N/A  | N/A         | N/A        |
| Develop and air announcement of upcoming channel change                  | \$11,500.00                    | \$11,500.00    | N/A  | N/A         | N/A        |
| Equipment<br>Storage   | \$6,140.00                     | \$6,140.00     | N/A  | N/A         | N/A        |
| Equipment Delivery and Handling Charges                                  | \$8,929.00                     | \$8,929.00     | N/A  | \$3,125.15  | N/A        |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$43,733.00                    | \$43,733.00    | See attached Comark quote P#4034WNDU- PARLX- 170530 for disposal costs for existing main and auxiliary transmitters See attached TecServ quote for removal & disposal of transmitter coolant | \$10,000.20 | N/A        |

| Total for all   | \$7,847,590.29 | \$6,453,665.94 | N/A  | \$2,726,514.02 | N/A |
|---|----------------|----------------|--|----------------|-----|
| Sub-total   | \$112,822.00   | \$103,577.00   | N/A  | \$17,116.98    | N/A |
| AM Pattern<br>Disturbance<br>Remedy                       | \$21,050.00    | \$20,000.00    | N/A  | N/A            | N/A |
|   |                |                | the auxiliary<br>tower and the<br>primary tower<br>@ \$3,500 per<br>study. |                |     |
| AM Pattern Disturbance Impact study                       | \$7,890.00     | \$7,000.00     | A study will be require for each tower,                                    | \$3,991.63     | N/A |
| DTV Medical<br>Facility<br>Notification                   | \$11,550.00    | \$4,260.00     | N/A  | N/A            | N/A |
| FCC Filing Fees - Form 2100 license to cover application  | \$335.00       | \$325.00       | N/A  | N/A            | N/A |
| FCC Filing Fees - Special Temporary Authorization request | \$195.00       | \$190.00       | N/A  | N/A            | N/A |

| Actual Information Description                          | File Name                 |
|---|---------------------------|
| MVPD Notification of<br>Channel Change                  | Information not provided. |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Storage                                       | Information not provided. |

| Equipment Delivery and Handling Charges                         | Component Description:    | Equipment                        |
|---|---------------------------|----------------------------------|
|   | Component Description.    | Delivery and                     |
|   |                           | Handling Charges                 |
|   | Amount:                   | \$3,125.15                       |
| Disposal Costs (for   |                           |                                  |
| equipment and other waste, net of any salvage value)            | Component Description:    | Disposal Costs                   |
| net of any salvage value)                                       |                           | (for equipment                   |
|   |                           | and other waste,                 |
|   |                           | net of any salvage value)        |
|   | Amount:                   | \$10,000.20                      |
| FCC Filing Fees - Special<br>Temporary Authorization<br>request | Information not provided. |                                  |
| FCC Filing Fees - Form  | Information not provided. |                                  |
| 2100 license to cover application                               |                           |                                  |
| DTV Medical Facility<br>Notification                            | Information not provided. |                                  |
| AM Pattern Disturbance  |                           |                                  |
| Impact study  | Component Description:    | As part of the                   |
|   |                           | construction                     |
|   | Amount:                   | Permit for WNDU<br>\$1,846.32    |
|   | Amount.                   | \$1,040.32                       |
|   | Component Description:    | Check phase                      |
|   |                           | monitor and                      |
|   |                           | power, measure                   |
|   |                           | the daytime MP's,<br>measure the |
|   |                           | nighttime MP's,                  |
|   |                           | report                           |
|   | Amount:                   | \$2,145.31                       |
| AM Pattern Disturbance<br>Remedy                                | Information not provided. |                                  |

#### **Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost    |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$7,847,590.29                 | \$6,453,665.94 | \$2,726,514.02 |

| Reimbursem | entestiatus  | 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. Robert J. Folliard , III

Assistant Secretary

06/03/2019

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. Robert J. Folliard , III

Assistant Secretary

06/03/2019

#### **Attachments**