



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **41674** | Service: **DTX** | Call **WNDU-TV** | Channel: **27 (UHF)** |  
ID: | Sign:  
File **0000028730**  
Number:  
FRN: **0018223693** | Date **10/08**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant                                | Address  | Phone                | Email                           | Applicant Type               |
|--|--|----------------------|---------------------------------|------------------------------|
| <b>GRAY TELEVISION<br/>LICENSEE, LLC</b> | Robert<br>Folliard<br>4370<br>Peachtree<br>Road<br>Atlanta, GA<br>30319<br>United States | +1 (202)<br>750-1585 | Robert.<br>Folliard@gray.<br>tv | Limited Liability<br>Company |

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

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

## Preparer Contact Information

### Preparer Contact Name and Information

| Applicant                              | Address   | Phone             | Email                  |
|--|---|-------------------|------------------------|
| <b>Samuel Hariton</b><br><i>Widely</i> | Samuel Hariton<br>4031 University Dr<br>Suite 100<br>Fairfax, VA 22030<br>United States | +1 (339) 222-8107 | sam.hariton@widely.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**

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

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

| Section   | Question   | Response                 |
|---|--|--------------------------|
| <b>Existing Transmitter<br/>Description</b>           | 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                      |
| <b>Existing Transmitter<br/>Manufacturer and Type</b> | Manufacturer   |                          |
|   | Model  | DCX Gen 1                |
|   | Year   | 1998                     |
|   | Type   | 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<br>Comark<br>DCX Gen 1<br>from 1998 is<br>not<br>compatible<br>with repack<br>channel 27<br>and no<br>available<br>parts due to<br>being<br>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 will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. |
| <b>HVAC Service</b>  | Does the replacement transmitter require HVAC Service?  | Yes   |
|  | Type  | Cooling Only  |
|  | Size  | 10 tons   |
|  | Other Size  | N/A   |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No  |
|  | Size  | N/A   |
| <b>Channel 14 Costs</b>  | 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 and Type | Manufacturer   |                          |
|  | Model  | DCX<br>Generation<br>1   |
|  | Year   | 1998                     |
|  | Type   | Inductive<br>Output Tube |
|  | IOT Power Type   | Two                      |
|  | Power Capacity   | 49 kW                    |

**Primary  
Transmitter**

**New Transmitter Costs**

| Section         | Question                                  | Response   |
|-----------------|---|--|
| New Transmitter | Use                                       | Primary (Main)   |
|                 | Change Type                               | Purchase New   |
|                 | Is this a request for upgraded equipment? | Yes  |
|                 | Manufacturer                              |  |
|                 | Model                                     | HPTV-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 will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. |
| <b>HVAC Service</b>  | Does the replacement transmitter require HVAC Service?  | No  |
|  | Type  | N/A   |
|  | Size  | N/A   |
|  | Other Size  | N/A   |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No  |
|  | Size  | N/A   |
| <b>Channel 14 Costs</b>  | 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   |
|--------------------|---|
| Transmitter Remote | Remote controls for transmitter                       |
| Ice shield         | Fencing extension for Interim heat exchanger          |
| Renovation         | Necessary interior wall work for transmitter building |
| Site Survey        | Basic site survey by GatesAir                         |

**Antennas**

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

## Auxiliary Antenna

### Existing Antenna Information

| Section                                   | Question   | Response              |
|---|--|-----------------------|
| Existing Antenna<br>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<br>Manufacturer and Type | Class  | Full Power            |
|   | Mounting   | Top Mount             |
|   | Antenna position in stack  | Not in Stack          |
|   | Polarization   | Horizontal            |
|   | Type   | 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)<br>.....                         | 631.0 kW              |
|   |  |                       |

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

## Auxiliary Antenna

### 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<br>Manufacturer and Types | Class  | Full Power            |
|                                       | Mounting   | Top Mount             |
|                                       | Antenna position in stack  | Not in Stack          |
|                                       | Polarization   | Elliptical            |
|                                       | Type   | 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)<br>.....                             | 573.0 kW              |
|                                       | Manufacturer   |                       |
|                                       |  |                       |

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

## Auxiliary Antenna

### Other Antenna Costs

| Section                            | Question  | Response               |
|------------------------------------|---|------------------------|
| <b>Combiner for Shared Antenna</b> | Do you need a Combiner for a Shared Antenna?  | No                     |
|                                    | Type  |                        |
|                                    | Number of channels supported  | N/A                    |
|                                    | Frequencies of channels supported   | N/A                    |
|                                    | Frequency   | N/A                    |
|                                    | Do you need a combiner output splitter /switcher for dual feed lines?                                       | N/A                    |
| <b>Elbow Complex</b>               | Do you require the separate purchase of the Elbow Complex?  | Yes                    |
|                                    | Broadband or Single Channel?  | Broadband              |
|                                    | Feed Line Size  | 6 1/8 inches<br>inches |
| <b>Side Mount Brackets</b>         | Do you require the separate purchase of side mount brackets for a high power antenna?                       | No                     |
| <b>Pattern Scatter Analysis</b>    | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No                     |

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

**Auxiliary  
Antenna**

**Other Antenna Cost Not Listed**

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



## Primary Antenna

### Existing Antenna Information

| Section                                   | Question   | Response                |
|---|--|-------------------------|
| Existing Antenna<br>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<br>Manufacturer and Type | Class  | Full Power              |
|   | Mounting   | Top Mount               |
|   | Antenna position in stack  | Not in Stack            |
|   | Polarization   | Elliptical              |
|   | Type   | 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)<br>.....                         | 800.0 kW                |

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

Primary  
Antenna

New Antenna Costs

| Section                            | Question   | Response             |
|------------------------------------|--|----------------------|
| New Antenna Description            | Use  | Primary (Main)       |
|                                    | Description of Use   | N/A                  |
|                                    | Change Type  | Purchase New         |
|                                    | Is this a request for upgraded equipment?                            | No                   |
|                                    | Ownership  | Owned                |
|                                    | Owner  | N/A                  |
|                                    | Is antenna shared?   | No                   |
|                                    | Is antenna directional?  | No                   |
|                                    | Will antenna be located on or in close proximity to an antenna farm? | No                   |
| New Antenna Manufacturer and Types | Class  | Full Power           |
|                                    | Mounting   | Top Mount            |
|                                    | Antenna position in stack  | Not in Stack         |
|                                    | Polarization   | Elliptical           |
|                                    | Type   | 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 Wave Slot |
|                                    | ERP: (Effective Radiated Power)<br>.....                             | 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 |

## Primary Antenna

### Other Antenna Costs

| Section                            | Question  | Response               |
|------------------------------------|---|------------------------|
| <b>Combiner for Shared Antenna</b> | Do you need a Combiner for a Shared Antenna?  | No                     |
|                                    | Type  |                        |
|                                    | Number of channels supported  | N/A                    |
|                                    | Frequencies of channels supported   | N/A                    |
|                                    | Frequency   | N/A                    |
|                                    | Do you need a combiner output splitter /switcher for dual feed lines?                                       | N/A                    |
| <b>Elbow Complex</b>               | Do you require the separate purchase of the Elbow Complex?  | Yes                    |
|                                    | Broadband or Single Channel?  | Single Channel         |
|                                    | Feed Line Size  | 6 1/8 inches<br>inches |
| <b>Side Mount Brackets</b>         | Do you require the separate purchase of side mount brackets for a high power antenna?                       | No                     |
| <b>Pattern Scatter Analysis</b>    | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No                     |

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

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

| <b>Name</b>              | <b>Description</b>  |
|--------------------------|---|
| <b>Top Plate Adapter</b> | Adapter for the top of the tower to match the bolt pattern of the new antenna |

**Transmission Line**

| Section                               | Question  | Response |
|---------------------------------------|---|----------|
| Transmission Line<br>Related Expenses | Do you have transmission line related expenses? | Yes      |

Auxiliary

Transmission Line

Existing Transmission Line

| Section  | Question   | Response           |
|--|--|--------------------|
| Existing Transmission Line Description           | Type of change   | Purchase New       |
|  | Use  | Auxiliary (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 Line Manufacturer and Type | Manufacturer   |                    |
|  | Type   | 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 per run  |

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

| Section                            | Question                                  | Response   |
|------------------------------------|---|--|
| <b>New Transmission Line Costs</b> | Use                                       | Auxiliary (Backup)                                   |
|                                    | Description of Use                        | Backup   |
|                                    | Change Type                               | Purchase New   |
|                                    | Is this a request for upgraded equipment? | No   |
|                                    | Type                                      | Rigid  |
|                                    | Diameter                                  | 6 1/8 inches   |
|                                    | Other Diameter                            | N/A  |
|                                    | Segment Length                            | Broadband  |
|                                    | Other Segment Length                      | N/A  |
|                                    | Number of parallel runs                   | 1  |
|                                    | Length                                    | 1040 feet per run                                    |
|                                    | Justification for New Transmission Line   | Current 19.5' sections are not compatible with Ch 27 |

**Auxiliary**      **Other Transmission Line Expenses Not Listed**  
**Transmission Line**      **Information not provided.**



**Primary**  
**Transmission Line**

**Existing Transmission Line**

| Section   | Question   | Response          |
|---|--|-------------------|
| <b>Existing Transmission Line Description</b>           | Type of change   | Purchase New      |
|   | Use  | Primary (Main)    |
|   | Description of Use   | N/A               |
|   | Ownership  | Owned             |
|   | Owner  | N/A               |
|   | Site   | N/A               |
|   | Is the existing transmission line shared with another station or stations? | No                |
|   | Is Transmission Line in operating condition?                               | Yes               |
| <b>Existing Transmission Line Manufacturer and Type</b> | Manufacturer   |                   |
|   | Type   | 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 per run |

**Primary** **New Transmission Line**  
**Transmission Line**

| Section                            | Question                                  | Response   |
|------------------------------------|---|--|
| <b>New Transmission Line Costs</b> | Use                                       | Primary (Main)                                       |
|                                    | Description of Use                        | N/A  |
|                                    | Change Type                               | Purchase New   |
|                                    | Is this a request for upgraded equipment? | No   |
|                                    | Type                                      | Rigid  |
|                                    | Diameter                                  | 6 1/8 inches   |
|                                    | Other Diameter                            | N/A  |
|                                    | Segment Length                            | 20 inches  |
|                                    | Other Segment Length                      | N/A  |
|                                    | Number of parallel runs                   | 1  |
|                                    | Length                                    | 1035 feet per run                                    |
|                                    | Justification for New Transmission Line   | Current 19.5' sections are not compatible with Ch 27 |

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Information not provided.

**Tower  
Equipment  
And  
Rigging  
Costs**

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

**Auxiliary  
Tower**

**Existing Tower**

| Section   | Question  | Response           |
|---|---|--------------------|
| Existing Tower Description                          | Type of change  | Modify Existing    |
|   | Tower Use   | Auxiliary (Backup) |
|   | Description of Use                                      | Backup 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 Registration               | Do you have a tower registration number?                | Yes                |
|   | ASR Number  | 1027597            |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 41° 36' 19.2" N-   |
|   | Longitude (NAD83)                                       | 086° 12' 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 - Multiple Structures |
|  | Tower Owner                                  | Gray Television 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 |
|-------------|-----------|---------|
| 41675       | WNDV-FM   | FM      |
| 70459       | WSND-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 Reinforcements needed     |

**Auxiliary  
Tower**

**Tower Rigging Costs**

| Section | Question | Response |
|---------|----------|----------|
|---------|----------|----------|

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

**Auxiliary  
Tower**

**Other Tower Expenses Not Listed**

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

## Primary Tower

### Existing Tower

| Section   | Question  | Response                     |
|---|---|------------------------------|
| Existing Tower Description                          | Type of change  | Modify Existing              |
|   | Tower Use   | Primary (Main)               |
|   | Description of Use                                      | N/A                          |
|   | Ownership   | 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 Registration               | Do you have a tower registration number?                | Yes                          |
|   | ASR Number  | 1027596                      |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 41° 36' 20.0" N-             |
|   | Longitude (NAD83)                                       | 086° 12' 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 - Multiple Structures |
|   | Tower Owner   | Gray Television Group, Inc.  |

|  |                  |            |
|--|------------------|------------|
|  | Date Constructed | 01/01/1969 |
|--|------------------|------------|

**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 |
|-------|
| FBI   |
| ATF   |

**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 Reinforcements needed     |

**Primary  
Tower**

**Tower Rigging Costs**

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

**Primary  
Tower**

**Other Tower Expenses Not Listed**

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

|   |                                    |
|---|------------------------------------|
| <b>Level II Corrosion Risk Assessment</b> | Level II Corrosion Risk Assessment |
| <b>Level I Corrosion Risk Assessment</b>  | Level I Corrosion Risk Assessment  |



**Outside  
Professional Services Costs**

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

|                                      |  |     |
|--------------------------------------|--|-----|
|                                      | Prepare request for Special Temporary Authority  | No  |
|                                      | Quantity   | N/A |
|                                      | NEPA Section 106 environmental review  | Yes |
|                                      | Environmental Assessment   | Yes |
|                                      | ASR Modification   | Yes |
|                                      | FAA Consultation (including preparation of FAA Form 7460)                                  | Yes |
|                                      | Negotiation of Lease and other Matter for Shared Locations                                 | No  |
|                                      | Prepare or Review FCC Form 399 for Reimbursement   | Yes |
|                                      | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| <b>RF Field Engineering Services</b> | 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 Services Costs**      **Other Professional Services Expenses Not Listed**

If wireless is not provided.

## Other Expenses

| Section                             | Question   | Response |
|-------------------------------------|--|----------|
| <b>AM Pattern Disturbance</b>       | Is an Impact Study needed?   | Yes      |
|                                     | Is Remediation needed?   | Yes      |
| <b>Facility Expenses</b>            | Name   | N/A      |
|                                     | Other Distributed Transmission System Expenses Not listed  | N/A      |
|                                     | Name   | N/A      |
|                                     | Is Notification of a Medical Facility required as a result of DTV broadcasting?                                      | Yes      |
| <b>Permit and Filing Costs</b>      | 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      |
| <b>Other Miscellaneous Expenses</b> | 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      |

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Other Expenses</b> | <b>Other Expenses Not Listed</b> |
|                       | Information not provided.        |

## Cost Information

### Transmitters

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

| Description   | Predetermined Cost Estimate | Estimated Cost        | Estimated Cost Justification         | Actual Cost       | Actual Cost Justification |
|---|-----------------------------|-----------------------|--------------------------------------|-------------------|---------------------------|
| <b>Primary Transmitter HPTV-PARLX-U32</b>   | <b>\$1,880,035.99</b>       | <b>\$1,325,467.99</b> |                                      | <b>\$7,980.00</b> |                           |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW  | \$1,788,000.00              | \$1,233,432.00        | Comark quote P#4034WNDU-PARLX-170530 | 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. | <b>\$62,381.00</b>          | \$62,381.00           | N/A                                  | N/A               | N/A                       |
| Ice shield  | <b>\$2,634.34</b>           | \$2,634.34            | N/A                                  | N/A               | N/A                       |
| Transmitter Remote  | <b>\$2,990.65</b>           | \$2,990.65            | N/A                                  | \$0.00            | N/A                       |
| Renovation  | <b>\$16,050.00</b>          | \$16,050.00           | N/A                                  | N/A               | N/A                       |
| Site Survey   | <b>\$7,980.00</b>           | \$7,980.00            | See attached invoice                 | \$7,980.00        | N/A                       |

|   |                       |                       |  |               |     |
|---|-----------------------|-----------------------|--|---------------|-----|
| <b>Auxiliary Transmitter HPTV-PARLX-U32</b>   | <b>\$1,968,900.00</b> | <b>\$1,524,994.00</b> |  | <b>\$0.00</b> |     |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW  | \$1,788,000.00        | \$1,372,044.00        | Comark quote P#4034WNDU-DCXP2-170530<br>Comark quote P#4034WNDU-PARLX-170530 | \$0.00        | 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. | <b>\$2,000.00</b>     | \$2,000.00            | N/A  | N/A           | N/A |
| 10 Ton system   | \$38,900.00           | \$10,950.00           | See quote from Ideal Consolidated Inc. for 10 ton system                     | N/A           | N/A |
| Internal RF System  | <b>\$140,000.00</b>   | \$140,000.00          | N/A  | N/A           | N/A |
| <b>Sub-total</b>  | \$3,848,935.99        | \$2,850,461.99        | N/A  | \$7,980.00    | N/A |
| <b>Total for all systems</b>  | \$7,838,622.99        | \$6,442,834.58        | N/A  | \$606,235.66  | N/A |

## Components

| Actual Information  |  |
|---|--|
| Description   | File Name  |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW  | Information not provided.  |
| 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.  |
| Ice shield  | Information not provided.  |
| Transmitter Remote  | <div> <div>Component Description:</div> <div>Remote control<br/>New 1st Primary Transmitter</div> </div> <div> <div>Amount:</div> <div>\$2,842.77</div> </div> |
| Renovation  | Information not provided.  |
| Site Survey   | <div> <div>Component Description:</div> <div>Site Survey</div> </div> <div> <div>Amount:</div> <div>\$7,980.00</div> </div>                                    |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW  | <div> <div>Component Description:</div> <div>New Auxiliary Transmitter</div> </div> <div> <div>Amount:</div> <div>\$476,989.97</div> </div>                    |
| 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.  |

## Cost Information

### Antennas

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

| Description   | Predetermined Cost Estimate | Estimated Cost      | Estimated Cost Justification | Actual Cost         | Actual Cost Justification |
|---|-----------------------------|---------------------|------------------------------|---------------------|---------------------------|
| <b>Primary Antenna<br/>TFU-31ETT<br/>/VP-R 04</b>                                   | <b>\$313,550.00</b>         | <b>\$313,688.00</b> |                              | <b>\$0.00</b>       |                           |
| Top Plate Adapter   | <i>\$19,520.00</i>          | \$19,520.00         | N/A                          | \$0.00              | N/A                       |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)    | \$12,300.00                 | \$12,768.00         | JEHQ1248-02                  | N/A                 | N/A                       |
| Sweep test of existing antenna  | \$6,730.00                  | \$6,400.00          | N/A                          | N/A                 | N/A                       |
| UHF - High Power Top Mount One Station antenna elliptically or circularly polarized | <i>\$275,000.00</i>         | \$275,000.00        | Catalog Cost                 | N/A                 | N/A                       |
| <b>Auxiliary Antenna<br/>TUA-04-8<br/>/32-H-K-1</b>                                 | <b>\$329,450.00</b>         | <b>\$194,513.44</b> |                              | <b>\$127,338.01</b> |                           |



|  |                    |                |     |              |     |
|--|--------------------|----------------|-----|--------------|-----|
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00       | \$155,825.44   | N/A | \$96,387.61  | N/A |
| Sweep test of existing antenna   | \$6,730.00         | \$6,400.00     | N/A | \$5,120.00   | N/A |
| Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)                          | \$13,700.00        | \$12,768.00    | N/A | \$10,214.40  | N/A |
| Top Plate Adapter  | <b>\$19,520.00</b> | \$19,520.00    | N/A | \$15,616.00  | N/A |
| <b>Sub-total</b>   | \$643,000.00       | \$508,201.44   | N/A | \$127,338.01 | N/A |
| <b>Total for all systems</b>   | \$7,838,622.99     | \$6,442,834.58 | N/A | \$606,235.66 | N/A |

## Components

| Actual Information   |                           |
|--|---------------------------|
| Description  | File Name                 |
| Top Plate Adapter  | Information not provided. |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | Information not provided. |
| Sweep test of existing antenna   | Information not provided. |

|  |   |   |
|--|---|---|
| UHF - High Power Top Mount One Station antenna elliptically or circularly polarized                  | Information not provided.                       |   |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | <b>Component Description:</b><br><b>Amount:</b> | New Auxiliary Antenna<br>\$30,121.13                                |
|  | <b>Component Description:</b><br><b>Amount:</b> | New Auxiliary Antenna<br>\$30,121.13                                |
|  | <b>Component Description:</b><br><b>Amount:</b> | UHF Broadband Panel Top mount Aux/Interim TV Antenna<br>\$36,145.35 |
| Sweep test of existing antenna   | <b>Component Description:</b><br><b>Amount:</b> | Auxiliary/Interim Antenna Sweep Test<br>\$1,600.00                  |
|  | <b>Component Description:</b><br><b>Amount:</b> | Sweep Test Auxiliary/Interim Antenna<br>\$1,920.00                  |
|  | <b>Component Description:</b><br><b>Amount:</b> | Auxiliary/Interim Antenna Sweep Test<br>\$1,600.00                  |

|  |   |  |   |  |   |  |   |
|--|---|--|---|--|---|--|---|
| <p>Elbow complex, broadband,<br/>at antenna input, per 6 1/8.<br/>feedline (if needed)</p> | <table> <tr> <td data-bbox="710 87 1141 302"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1141 87 1426 302"> <p>Auxiliary/Interim<br/>Antenna - Elbow<br/>Complex<br/>\$3,192.00</p> </td></tr> <tr> <td data-bbox="710 302 1141 517"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1141 302 1426 517"> <p>Auxiliary/Interim<br/>Antenna - Elbow<br/>Complex<br/>\$3,192.00</p> </td></tr> <tr> <td data-bbox="710 517 1141 732"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1141 517 1426 732"> <p>Auxiliary/Interim<br/>Antenna Elbow<br/>Complex<br/>\$3,830.40</p> </td></tr> </table>                     | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Auxiliary/Interim<br/>Antenna - Elbow<br/>Complex<br/>\$3,192.00</p>   | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Auxiliary/Interim<br/>Antenna - Elbow<br/>Complex<br/>\$3,192.00</p>   | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Auxiliary/Interim<br/>Antenna Elbow<br/>Complex<br/>\$3,830.40</p>     |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p>                                 | <p>Auxiliary/Interim<br/>Antenna - Elbow<br/>Complex<br/>\$3,192.00</p>   |  |   |  |   |  |   |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p>                                 | <p>Auxiliary/Interim<br/>Antenna - Elbow<br/>Complex<br/>\$3,192.00</p>   |  |   |  |   |  |   |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p>                                 | <p>Auxiliary/Interim<br/>Antenna Elbow<br/>Complex<br/>\$3,830.40</p>   |  |   |  |   |  |   |
| <p>Top Plate Adapter</p>   | <table> <tr> <td data-bbox="710 902 1141 1140"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1141 902 1426 1140"> <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$5,856.00</p> </td></tr> <tr> <td data-bbox="710 1140 1141 1355"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1141 1140 1426 1355"> <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$4,880.00</p> </td></tr> <tr> <td data-bbox="710 1355 1141 1570"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1141 1355 1426 1570"> <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$4,880.00</p> </td></tr> </table> | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$5,856.00</p> | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$4,880.00</p> | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$4,880.00</p> |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p>                                 | <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$5,856.00</p>   |  |   |  |   |  |   |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p>                                 | <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$4,880.00</p>   |  |   |  |   |  |   |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p>                                 | <p>Auxiliary/Interim<br/>Antenna Top<br/>Plate Adapter<br/>\$4,880.00</p>   |  |   |  |   |  |   |

Cost  
Information

Transmission Line

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

| Description  | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost  | Actual Cost Justification |
|--|-----------------------------|----------------|------------------------------|--------------|---------------------------|
| Primary Transmission Line                          | \$209,070.00                | \$152,101.30   |                              | \$0.00       |                           |
| Rigid Transmission Line - copper, 6 1/8"           | \$209,070.00                | \$152,101.30   | N/A                          | N/A          | N/A                       |
| Auxiliary Transmission Line                        | \$241,280.00                | \$190,905.35   |                              | \$151,763.50 |                           |
| Rigid Transmission Line - copper, 6 1/8" broadband | \$241,280.00                | \$190,905.35   | N/A                          | \$151,763.50 | N/A                       |
| Sub-total  | \$450,350.00                | \$343,006.65   | N/A                          | \$151,763.50 | N/A                       |
| Total for all systems                              | \$7,838,622.99              | \$6,442,834.58 | N/A                          | \$606,235.66 | N/A                       |

Components

| Actual Information                       |                           |
|--|---------------------------|
| Description                              | File Name                 |
| Rigid Transmission Line - copper, 6 1/8" | Information not provided. |

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

**Component Description:**

Interim  
Transmission Line

**Amount:**

\$56,911.32

**Component Description:**

Auxiliary/Interim  
Transmission Line

**Amount:**

\$47,426.09

**Component Description:**

Auxiliary/Interim  
Transmission Line

**Amount:**

\$47,426.09

Cost  
Information

Tower Equipment and Rigging Costs

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

| Description   | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost  | Actual Cost Justification |
|---|-----------------------------|----------------|------------------------------|--------------|---------------------------|
| Primary Tower 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 Corrosion Risk Assessment                                | \$4,750.00                  | \$4,750.00     | N/A                          | \$2,750.00   | N/A                       |
| Level I Corrosion Risk Assessment                                 | \$750.00                    | \$750.00       | N/A                          | N/A          | N/A                       |
| Tall Tower (greater than 500')                                    | \$210,500.00                | \$200,000.00   | N/A                          | N/A          | N/A                       |
| Structural engineering tower load study for well documented tower | \$12,600.00                 | \$8,587.50     | N/A                          | \$8,587.50   | N/A                       |
| Auxiliary Tower NTOWER  | \$1,281,650.00              | \$1,214,250.00 |                              | \$171,131.25 |                           |
| Tall Tower (greater than 500')                                    | \$210,500.00                | \$200,000.00   | N/A                          | \$47,500.00  | 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<br>study   | <b>\$750.00</b>   | \$750.00       | N/A   | \$0.00       | N/A |
| Structural<br>engineering<br>tower load<br>study for well<br>documented<br>tower | \$12,600.00       | \$7,700.00     | Additional<br>official<br>stamped<br>tower<br>analysis<br>required<br>because of<br>the<br>addition of<br>radomes to<br>aux<br>antenna,<br>radomes<br>required to<br>reduce<br>wind<br>loading<br>and meet<br>tower<br>loading. | \$2,250.00   | N/A |
| Corrosion<br>analysis and<br>ultrasound<br>measurements                          | <b>\$5,800.00</b> | \$5,800.00     | See<br>attached<br>invoice and<br>purchase<br>order<br>072617TD   | \$5,800.00   | N/A |
| <b>Sub-total</b>   | \$2,562,250.00    | \$2,428,337.50 | N/A   | \$268,852.50 | N/A |
| <b>Total for all<br/>systems</b>   | \$7,838,622.99    | \$6,442,834.58 | N/A   | \$606,235.66 | N/A |

## Components

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

|   |                               |   |
|---|-------------------------------|---|
| Serious tower reinforcement<br>/modifications |                               |   |
|   | <b>Component Description:</b> | Perform sub-surface soil evaluation on towers - Laboratory Services     |
|   | <b>Amount:</b>                | \$2,892.00  |
|   |                               |   |
|   | <b>Component Description:</b> | Perform sub-surface soil evaluation on towers - Mobilization            |
|   | <b>Amount:</b>                | \$5,696.50  |
|   |                               |   |
|   | <b>Component Description:</b> | Tower reinforcement. /Modifications- Primary Tower                      |
|   | <b>Amount:</b>                | \$18,761.31   |
|   |                               |   |
|   | <b>Component Description:</b> | Tower reinforcement & design drawings Existing Primary Tower            |
|   | <b>Amount:</b>                | \$2,750.00  |
|   |                               |   |
|   | <b>Component Description:</b> | 75% costs of Tower Reinforcement /Modification on 945ft Tower (Primary) |
|   | <b>Amount:</b>                | \$56,283.94   |



|   |  |
|---|--|
| Level II Corrosion Risk Assessment                                | <div> <div><b>Component Description:</b></div> <div>Corrosion inspection and Ultrasound measurements</div> <div><b>Amount:</b></div> <div>\$2,750.00</div> </div>  |
| Level I Corrosion Risk Assessment                                 | Information not provided.  |
| Tall Tower (greater than 500')                                    | Information not provided.  |
| Structural engineering tower load study for well documented tower | <div> <div><b>Component Description:</b></div> <div>Structural Engineering Tower Load study - Primary Tower</div> <div><b>Amount:</b></div> <div>\$5,450.00</div> </div> <div> <div><b>Component Description:</b></div> <div>Structural Engineering Tower Load study</div> <div><b>Amount:</b></div> <div>\$1,000.00</div> </div> <div> <div><b>Component Description:</b></div> <div>Take measurements for tower modifications and record elevations</div> <div><b>Amount:</b></div> <div>\$2,137.50</div> </div> |
| Tall Tower (greater than 500')                                    | <div> <div><b>Component Description:</b></div> <div>AUX TWR Rigging, Antenna &amp; Complete feedline removal</div> <div><b>Amount:</b></div> <div>\$47,500.00</div> </div>   |

|   |  |
|---|--|
| Serious tower reinforcement /modifications                        | <b>Component Description:</b> Tower Resocket on Level 6 B&C anchor points<br><b>Amount:</b> Auxiliary Tower \$6,469.25             |
|   | <b>Component Description:</b> Tower Reinforcement /Modification of Auxiliary Tower<br><b>Amount:</b> \$26,590.50                   |
|   | <b>Component Description:</b> 75% costs Tower Reinforcement /Modification on 840ft Tower (Auxiliary)<br><b>Amount:</b> \$79,771.50 |
|   | <b>Component Description:</b> Tower reinforcement & design drawings Existing Auxiliary Tower<br><b>Amount:</b> \$2,750.00          |
|   |  |
| Level 1 Foundation study  | Information not provided.  |
| Structural engineering tower load study for well documented tower | <b>Component Description:</b> Structural Analysis of Auxiliary Tower<br><b>Amount:</b> \$5,450.00                                  |
|   | <b>Component Description:</b> Structural Analysis<br><b>Amount:</b> \$2,250.00   |

|   |                               |   |
|---|-------------------------------|---|
| Corrosion analysis and<br>ultrasound measurements | <b>Component Description:</b> | Corrosion<br>inspection and<br>Ultrasound<br>measurements of<br>tower legs in<br>preparation for<br>design and<br>application of<br>reinforcing required<br>for re-pack tower<br>modifications. |
|   | <b>Amount:</b>                | \$2,900.00  |
|   | <b>Component Description:</b> | Corrosion<br>inspection and<br>Ultrasound<br>measurements -<br>Primary Tower  |
|   | <b>Amount:</b>                | \$2,900.00  |

## Cost Information

### Outside Professional Services

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

| Description  | Predetermined Cost Estimate | Estimated Cost      | Estimated Cost Justification | Actual Cost        | Actual Cost Justification |
|--|-----------------------------|---------------------|------------------------------|--------------------|---------------------------|
| <b>Outside Professional Services</b>   | <b>\$221,265.00</b>         | <b>\$209,250.00</b> |                              | <b>\$50,301.65</b> |                           |
| RF Exposure 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                          | N/A                | N/A                       |
| ASR modification (prepare FCC Form 854)  | \$2,105.00                  | \$2,000.00          | N/A                          | N/A                | N/A                       |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet                  | \$10,520.00                 | \$10,000.00         | N/A                          | N/A                | N/A                       |
| NEPA Section 106 environmental review, if needed   | \$6,310.00                  | \$6,000.00          | N/A                          | N/A                | N/A                       |

|  |            |            |     |          |     |
|--|------------|------------|-----|----------|-----|
| Attorney Fees -<br>Prepare and<br>File FCC Form<br>2100 (main),<br>License to<br>Cover<br>Application  | \$2,365.00 | \$2,250.00 | N/A | N/A      | N/A |
| Attorney Fees<br>- Aux Antenna,<br>prepare and<br>File Form<br>2100<br>Construction<br>Permit or<br>License<br>Application                         | \$4,210.00 | \$4,000.00 | N/A | N/A      | N/A |
| Attorney Fees<br>- Prepare and<br>File FCC Form<br>2100 (main),<br>Construction<br>Permit<br>Application   | \$5,260.00 | \$5,000.00 | N/A | \$196.50 | N/A |
| Prepare<br>request for<br>Special<br>Temporary<br>Authorization  | \$4,100.00 | \$3,000.00 | N/A | N/A      | N/A |
| RF Consulting<br>Engineer<br>Fees- Aux<br>Antenna:<br>Prepare<br>engineering<br>section of FCC<br>Form 2100,<br>License to<br>Cover<br>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 | \$1,625.00  | 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 transition timing and coordination issues w/ other stations and wireless  | \$2,630.00   | \$2,500.00   | N/A | N/A         | N/A |
| Project management of the transition  | \$142,200.00 | \$135,000.00 | N/A | \$45,605.15 | N/A |

|  |                |                |     |              |     |
|--|----------------|----------------|-----|--------------|-----|
| Prepare and or review reimbursement form | \$2,630.00     | \$2,500.00     | N/A | N/A          | N/A |
| <b>Sub-total</b>                         | \$221,265.00   | \$209,250.00   | N/A | \$50,301.65  | N/A |
| <b>Total for all systems</b>             | \$7,838,622.99 | \$6,442,834.58 | N/A | \$606,235.66 | N/A |

## Components

| Actual Information Description   | File Name                 |
|--|---------------------------|
| RF Exposure Measurements   | 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. |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet                  | Information not provided. |
| NEPA Section 106 environmental review, if needed   | Information not provided. |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application   | Information not provided. |
| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application                         | Information not provided. |

|   |   |
|---|---|
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application                                  | <p><b>Component Description:</b> Complete and file repack CP application</p> <p><b>Amount:</b> \$196.50</p> |
| Prepare request for Special Temporary 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 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, Construction Permit Application | Information not provided.   |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application                                    | <p><b>Component Description:</b> FCC CP application</p> <p><b>Amount:</b> \$1,625.00</p>                    |



|  |   |  |
|--|---|--|
| Perform engineering study for new channel assignment and antenna development     | <b>Component Description:</b><br><br><b>Amount:</b> | Perform engineering study for new channel assignment<br>\$1,950.00   |
|  | <b>Component Description:</b><br><br><b>Amount:</b> | Engineering Study for New Channel Assignment<br>\$800.00   |
|  | <b>Component Description:</b><br><br><b>Amount:</b> | Review technical details of alternate antenna proposal from RFS regarding top-mount on repack Ch-27.<br>\$125.00 |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided.                           |  |
| Project management of the transition   | <b>Component Description:</b><br><br><b>Amount:</b> | Project Management<br>\$2,725.85   |
|  | <b>Component Description:</b><br><br><b>Amount:</b> | Project Management<br>\$755.80   |
|  | <b>Component Description:</b><br><br><b>Amount:</b> | Project Management<br>\$2,813.80   |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project management |
| <b>Amount:</b>                | \$2,817.65         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$3,593.55         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$3,657.40         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,461.65         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,668.05         |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Transition Related Project Management Costs |
| <b>Amount:</b>                | \$4,050.00                                  |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$802.25           |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,813.95         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project management |
| <b>Amount:</b>                | \$2,471.90         |

|  |                               |                    |
|--|-------------------------------|--------------------|
|  | <b>Component Description:</b> | Project Management |
|  | <b>Amount:</b>                | \$2,471.50         |
|  | <b>Component Description:</b> | Project Management |
|  | <b>Amount:</b>                | \$2,411.25         |
|  | <b>Component Description:</b> | Project Management |
|  | <b>Amount:</b>                | \$28.20            |
|  | <b>Component Description:</b> | Project Management |
|  | <b>Amount:</b>                | \$3,558.10         |
|  | <b>Component Description:</b> | Project managment  |
|  | <b>Amount:</b>                | \$1,553.55         |
|  | <b>Component Description:</b> | Project Management |
|  | <b>Amount:</b>                | \$2,403.10         |
|  | <b>Component Description:</b> | Project Management |
|  | <b>Amount:</b>                | \$2,547.60         |
|  | <b>Amount:</b>                |                    |
| Prepare and or review reimbursement form | Information not provided.     |                    |

## Cost Information

### Other Expenses

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

| Description  | Predetermined Cost Estimate | Estimated Cost      | Estimated Cost Justification  | Actual Cost   | Actual Cost Justification |
|--|-----------------------------|---------------------|---|---------------|---------------------------|
| <b>Other Expenses</b>  | <b>\$112,822.00</b>         | <b>\$103,577.00</b> |   | <b>\$0.00</b> |                           |
| MVPD Notification of Channel Change                                      | <i>\$1,500.00</i>           | \$1,500.00          | N/A   | N/A           | N/A                       |
| Develop and air announcement of upcoming channel change                  | <i>\$11,500.00</i>          | \$11,500.00         | N/A   | N/A           | N/A                       |
| Equipment Storage  | <i>\$6,140.00</i>           | \$6,140.00          | N/A   | N/A           | N/A                       |
| Equipment Delivery and Handling Charges                                  | <i>\$8,929.00</i>           | \$8,929.00          | N/A   | N/A           | N/A                       |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$43,733.00</i>          | \$43,733.00         | See attached Comark quote P#4034WNDU-PARLX-170530 for disposal costs for existing main and auxiliary transmitters<br>See attached TecServ quote for removal & disposal of transmitter coolant | N/A           | N/A                       |

|   |                |                |  |              |     |
|---|----------------|----------------|--|--------------|-----|
| FCC Filing Fees - Special Temporary Authorization request | \$195.00       | \$190.00       | N/A  | N/A          | N/A |
| AM Pattern Disturbance -- Impact study                    | \$7,890.00     | \$7,000.00     | A study will be require for each tower, the auxiliary tower and the primary tower @ \$3,500 per study. | N/A          | N/A |
| AM Pattern Disturbance -- Remedy                          | \$21,050.00    | \$20,000.00    | N/A  | N/A          | N/A |
| DTV Medical Facility 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 |
| <b>Sub-total</b>  | \$112,822.00   | \$103,577.00   | N/A  | \$0.00       | N/A |
| <b>Total for all systems</b>                              | \$7,838,622.99 | \$6,442,834.58 | N/A  | \$606,235.66 | N/A |

## Components

Information not provided.

|                         |                              |                                    |                       |
|-------------------------|------------------------------|------------------------------------|-----------------------|
| <b>Cost Information</b> | <b>Grand Total</b>           |                                    |                       |
|                         |                              | <b>Predetermined Cost Estimate</b> | <b>Estimated Cost</b> |
|                         |                              |                                    | <b>Actual Cost</b>    |
|                         | <b>Total for all systems</b> | \$7,838,622.99                     | \$6,442,834.58        |
|                         |                              |                                    | \$606,235.66          |

|                             |  |                 |
|-----------------------------|--|-----------------|
| <b>Reimbursement Status</b> | <b>Question</b>  | <b>Response</b> |
|                             | The facility has ceased operating on its pre-auction channel.  | No              |
|                             | Construction of final facilities or all necessary modifications are complete.  | No              |
|                             | All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator. | No              |

| Certification | Section                                     | Question  | Response |
|---------------|---|---|----------|
|               | Submission of Estimated Expenses Statements | <p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>   |          |
|               |   | <ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol> |          |

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.



|   |   |
|---|---|
| <p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p> |   |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>   | <p><b>Robert Folliard</b><br/> <i>Assistant Secretary</i></p> <p>10/08/2018</p> |

| Certification | Section  | Question   | Response |
|---------------|--|--|----------|
|               | Submission of Actual Cost Documentation Statements | WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).  |          |
|               |  | <ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol> |          |

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

|  |   |
|--|---|
| <p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p> |   |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>  | <p><b>Robert Folliard</b><br/> <i>Assistant Secretary</i></p> <p>10/08/2018</p> |

## Attachments