



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **69397** | Service: **DTV** | Call **WUNP-TV** | Channel: **27 (UHF)** |  
ID: | Sign:  
File **0000026701**  
Number:  
FRN: **0001910066** | Date **01/24**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant                           | Address                   | Phone       | Email                    | Applicant Type       |
|-------------------------------------|---------------------------|-------------|--------------------------|----------------------|
| <b>University of North Carolina</b> | PO Box 14900<br>Research  | +1<br>(919) | fcc_notice@unctv.<br>org | Government<br>Entity |
| Doing Business As:                  | Triangle Park,            | 549-        |                          |                      |
| University of North Carolina        | NC 27709<br>United States | 7000        |                          |                      |

## 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>Donald Smith</b>                 | Donald Smith                    | +1 (919) | dsmith@unctv. |
| <i>Director of New Technologies</i> | 10 T.W. Alexander               | 549-7000 | org           |
| <i>Compliance &amp; Planning</i>    | Drive                           |          |               |
| <i>University of North Carolina</i> | Research Triangle               |          |               |
| <i>Center for Public Television</i> | Park, NC 27709<br>United States |          |               |

**Broadcaster  
Information  
and  
Transition  
Plan**

| Question   | Response  |
|--|---|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | No  |
| Briefly describe transition plan   | The transition plan is to construct an interim facility at the existing site. The interim facility would be used when operation on the new channel begins. After that the necessary changes would be made to the primary transmission system. |

**Transmitters**

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

**Auxiliary  
Transmitter****Add Transmitter Information**

| Section   | Question   | Response              |
|---|--|-----------------------|
| <b>Existing Transmitter<br/>Description</b>           | Type of change   | Purchase<br>New       |
|   | Use  | Auxiliary<br>(Backup) |
|   | Description of Use   | Aux                   |
|   | 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  | DHD45P2               |
|   | Year   | 2001                  |
|   | Type   | Solid State           |
|   | Solid State Cooling  | Air Cooled            |
|   | Solid State Power Capacity                                 | 10.5 kW               |

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

| Section         | Question                                  | Response   |
|-----------------|---|--|
| New Transmitter | Use                                       | Auxiliary<br>(Backup)  |
|                 | Change Type                               | Purchase New   |
|                 | Is this a request for upgraded equipment? | No   |
|                 | Manufacturer                              |  |
|                 | Model                                     | ULXTE-20   |
|                 | Transmitter Type                          | Solid State  |
|                 | Solid State Cooling                       | Liquid Cooled  |
|                 | Solid State Power capacity                | 11.75 kW   |
|                 | Justification for New Transmitter         | The transmitter manufacturer has indicated that components necessary to modify the transmitter for operation on its new channel are no longer available and it will not be able to provide re-channelization services for the transmitter. See attached letter |

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

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

|  |   |     |
|--|---|-----|
| <b>Electrical Service</b>  | Service Entrance (3 phases 800A 208V)   | No  |
|  | Switchgear (industrial 800 amp)   | No  |
|  | Transformer (480V)  | No  |
|  | Power   | N/A |
|  | Rigid Conduit and Wiring  | No  |
|  | Size  | N/A |
|  | Length  | N/A |
|  | Other Electrical Service  | No  |
|  | Description   | N/A |
| <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 |

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Primary  
Transmitter**

**Existing Transmitter Information**

| Section   | Question   | Response                 |
|---|--|--------------------------|
| <b>Existing Transmitter<br/>Description</b>           | 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                      |
| <b>Existing Transmitter<br/>Manufacturer and Type</b> | Manufacturer   |                          |
|   | Model  | DCX-2                    |
|   | Year   | 2001                     |
|   | Type   | Inductive<br>Output Tube |
|   | IOT Power Type   | Two                      |
|   | Power Capacity   | 40 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                                     | ULXTE-60   |
|                 | Transmitter Type                          | Solid State  |
|                 | Solid State Cooling                       | Liquid Cooled  |
|                 | Solid State Power capacity                | 34 kW  |
|                 | Justification for New Transmitter         | The transmitter manufacturer has indicated that components necessary to modify the transmitter for operation on its new channel are no longer available and it will not be able to provide re-channelization services for the transmitter. See attached letter |

**Primary  
Transmitter**

**Other Transmitter Costs**

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

|  |   |     |
|--|---|-----|
|  | Switchgear (industrial 800 amp)   | No  |
|  | Transformer (480V)  | No  |
|  | Power   | N/A |
|  | Rigid Conduit and Wiring  | No  |
|  | Size  | N/A |
|  | Length  | N/A |
|  | Other Electrical Service  | No  |
|  | Description   | N/A |
| <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**

Information not provided.



**Antennas**

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

## Auxiliary Antenna

### Add Antenna Information

| Section                                | Question  | Response              |
|--|---|-----------------------|
| Existing Antenna Description           | Type of change  | Purchase<br>New       |
|  | Antenna Use   | Auxiliary<br>(Backup) |
|  | Description of Use  | Aux                   |
|  | Ownership   | Owned                 |
|  | Owner   | N/A                   |
|  | Site  | N/A                   |
|  | Is this antenna currently shared with any other stations?       | No                    |
|  | Is this antenna directional?                                    | No                    |
|  | Is antenna in operating condition?                              | Yes                   |
|  | Is antenna located on or in close proximity to an antenna farm? | No                    |
| Existing Antenna Manufacturer and Type | Class   | Full Power            |
|  | Mounting  | Side Mount            |
|  | Antenna position in stack                                       | Not in Stack          |
|  | Polarization  | Horizontal            |
|  | Type  | Slotted<br>Coaxial    |
|  | Number of Stations Supported                                    | N/A                   |
|  | Number of Panels  | N/A                   |
|  | Design power capacity in use                                    | N/A                   |
|  | Lower Limit   | N/A                   |
|  | Upper Limit   | N/A                   |
|  | Other Antenna Type  | N/A                   |
|  | ERP: (Effective Radiated Power)                                 | 205.7 kW              |
|  |   |                       |

|              |                      |
|--------------|----------------------|
| Manufacturer |                      |
| Model        | ATW24HS3-<br>HSO-36S |
| Year         | 2008                 |

## Auxiliary Antenna

### New Antenna Costs

| Section                            | Question   | Response                                |
|------------------------------------|--|---|
| New Antenna Description            | Use  | Auxiliary (Backup)                      |
|                                    | Description of Use   | Interim Facility and Eventual Auxiliary |
|                                    | 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   | Side Mount                              |
|                                    | Antenna position in stack  | Not in Stack                            |
|                                    | Polarization   | Elliptical                              |
|                                    | Type   | Slotted Coaxial                         |
|                                    | Number of Stations Supported   | N/A                                     |
|                                    | Number of Panels/Bays  | N/A                                     |
|                                    | Lower Limit  | N/A                                     |
|                                    | Upper Limit  | N/A                                     |
|                                    | Design power capacity in use   | N/A                                     |
|                                    | Other Antenna Type   | N/A                                     |
|                                    | ERP: (Effective Radiated Power)                                      | 312.0 kW                                |
|                                    |  |   |

|                               |  |
|-------------------------------|--|
| Manufacturer                  |  |
| Model                         | SAA22-O3-G200-ES4R-27  |
| Year                          | 2019   |
| Justification for New Antenna | The antenna can only operate on channel 36. The replacement antenna will be initially used as part of the interim facility during the transition. Following the transition it will become a permanent auxiliary antenna. |

## 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?  | Single Channel          |
|                                 | Feed Line Size  | 4 1/16 inches<br>inches |
| <b>Side Mount Brackets</b>      | Do you require the separate purchase of side mount brackets for a high power antenna?                       | Yes                     |
| <b>Pattern Scatter Analysis</b> | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes                     |
| <b>Sweep Test</b>               | Do you require the sweep testing of transmission line and antenna?  | Yes                     |

## Auxiliary Antenna

### Other Antenna Cost Not Listed

Information not provided.

**Primary  
Antenna**

**Existing Antenna Information**

| Section   | Question   | Response           |
|---|--|--------------------|
| <b>Existing Antenna<br/>Description</b>           | 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                 |
| <b>Existing Antenna<br/>Manufacturer and Type</b> | Class  | Full Power         |
|   | Mounting   | Top Mount          |
|   | Antenna position in stack  | Not in Stack       |
|   | Polarization   | Elliptical         |
|   | Type   | Slotted<br>Coaxial |
|   | Number of Stations Supported                                     | N/A                |
|   | Number of Panels   | N/A                |
|   | Design power capacity in use                                     | N/A                |
|   | Lower Limit  | N/A                |
|   | Upper Limit  | N/A                |
|   | Other Antenna Type   | N/A                |
|   | ERP: (Effective Radiated Power)<br>.....                         | 125.0 kW           |
|   |  |                    |

|              |                       |
|--------------|-----------------------|
| Manufacturer |                       |
| Model        | TFU-15JTH<br>/VP-R O4 |
| Year         | 2010                  |



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   | Slotted Coaxial |
|                                    | Number of Stations Supported   | N/A             |
|                                    | Number of Panels/Bays  | N/A             |
|                                    | Lower Limit  | N/A             |
|                                    | Upper Limit  | N/A             |
|                                    | Design power capacity in use   | N/A             |
|                                    | Other Antenna Type   | N/A             |
|                                    | ERP: (Effective Radiated Power)<br>.....                             | 248.0 kW        |
|                                    | Manufacturer   |                 |
|                                    |  |                 |

|                               |  |
|-------------------------------|--|
| Model                         | SAA14-O4A-G300-ET5R-27   |
| Year                          | 2019   |
| Justification for New Antenna | The antenna is a single channel slotted pylon style antenna. It cannot operate on a channel other than what it was designed, channel 36. The only viable option is to replace the antenna. |

## 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<br>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**

Information not provided.

**Transmission Line**

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

# Auxiliary Transmission Line

## Add Transmission Line

| Section  | Question   | Response                       |
|--|--|--------------------------------|
| Existing Transmission Line Description           | Type of change   | Purchase New                   |
|  | Use  | Auxiliary (Backup)             |
|  | Description of Use   | Interim and Eventual Auxiliary |
|  | Ownership  | Owned                          |
|  | Owner  | N/A                            |
|  | Site   | N/A                            |
|  | Is this transmission currently shared with any other stations? | No                             |
|  | Is Transmission Line in operating condition?                   | Yes                            |
| Existing Transmission Line Manufacturer and Type | Manufacturer   |                                |
|  | Type   | Rigid                          |
|  | Diameter   | 3 1/8 inches                   |
|  | Other Diameter   | N/A                            |
|  | Segment Length   | 20 inches                      |
|  | Other Segment Length   | N/A                            |
|  | Number of parallel runs  | 1                              |
|  | Length   | 800 feet per run               |

Auxiliary  
Transmission Line

New Transmission Line

| Section                        | Question                                  | Response                             |
|--------------------------------|---|--------------------------------------|
| New Transmission Line<br>Costs | Use                                       | Auxiliary<br>(Backup)                |
|                                | Description of Use                        | Interim and<br>Eventual<br>Auxiliary |
|                                | Change Type                               | Purchase<br>New                      |
|                                | Is this a request for upgraded equipment? | No                                   |
|                                | Type                                      | Rigid                                |
|                                | Diameter                                  | 4 1/16<br>inches                     |
|                                | Other Diameter                            | N/A                                  |
|                                | Segment Length                            | 20 inches                            |
|                                | Other Segment Length                      | N/A                                  |
|                                | Number of parallel runs                   | 1                                    |
|                                | Length                                    | 800 feet per<br>run                  |
|                                |   |                                      |

|  |   |   |
|--|---|---|
|  | Justification for New Transmission Line | Constructing a viable interim facility with meaningful coverage area requires a system with increased power handling capability. This is best addressed by replacing the transmission line with higher power handling capability. See transition plan narrative |
|--|---|---|

**Auxiliary Transmission Line**      **Other Transmission Line Expenses Not Listed**  
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      |

**Primary  
Tower**

**Existing Tower**

| Section   | Question  | Response          |
|---|---|-------------------|
| Existing Tower Description                          | Type of change  | Move Equipment    |
|   | 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? | No                |
|   | One or more FM, AM or TV radio broadcaster(s)           | N/A               |
|   | Others Types of Users                                   | N/A               |
|   | Is tower documented for structural analysis?            | Yes               |
|   | Is tower compliant with Rev G?                          | Yes               |
| Existing Tower Structure Registration               | Do you have a tower registration number?                | Yes               |
|   | ASR Number  | 1014576           |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 36° 17' 29.2" N-  |
|   | Longitude (NAD83)                                       | 077° 50' 09.4" W- |
|   | Overall Structure Height                                | 1143.03 feet      |
|   | Support Structure Height                                | 1112.19 feet      |
|   | Ground Elevation Above Mean Sea Level (AMSL)            | 284.12 feet       |



|  |                  |  |
|--|------------------|--|
|  | Structure Type   | TOWER - Free Standing or Guyed Structure |
|  | Tower Owner      | UNIVERSITY OF NORTH CAROLINA             |
|  | Date Constructed | 05/13/2011                               |

**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**

Information not provided.

**Outside  
Professional Services Costs**

| Section   | Question   | Response  |
|---|--|---|
| <b>Outside Project Management Services</b>        | Do you require outside project management services?                          | Yes   |
|   | Number of Hours  | 120   |
|   | Explanation  | Because the transmission site is owned by the State of North Carolina, it is subject to various state construction project rules. One rule is the hiring of a designer to create submittals for project review and approval by the state. |
| <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   | 1   |

|   |  |     |
|---|--|-----|
|   | 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  | Yes |
|   | Quantity   | 1   |
|   | NEPA Section 106 environmental review  | No  |
|   | Environmental Assessment   | No  |
|   | ASR Modification   | Yes |
|   | FAA Consultation (including preparation of FAA Form 7460)                                  | Yes |
|   | Negotiation of Lease and other Matter for Shared Locations                                 | No  |
|   | Prepare or Review FCC Form 399 for Reimbursement   | Yes |
|   | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| <b>RF Field Engineering Services</b>                  | Comprehensive coverage verification via field study  | No  |
|   | RF exposure measurements   | No  |
|   | Additional Field Engineering Service   | No  |
|   | Number of Days   | N/A |

|  |               |     |
|--|---------------|-----|
|  | Justification | N/A |
|--|---------------|-----|

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

| Name                      | Description  |
|---------------------------|--|
| Additional Legal Expenses | Legal expenses for non-catalog advice and review, including transition status reports and other miscellaneous legal needs. |
| Tower Structural Analysis | Required by State Building Code  |

## Other Expenses

| Section                             | Question   | Response |
|-------------------------------------|--|----------|
| <b>AM Pattern Disturbance</b>       | Is an Impact Study needed?   | No       |
|                                     | Is Remediation needed?   | No       |
| <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   | No       |
|                                     | FCC Special Temporary Authority Application  | No       |
| <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? | No       |
|                                     | Does this relocation require Equipment Storage?  | No       |
|                                     | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?     | Yes      |
|                                     | Does this relocation require MVPD Notification of a Channel Change?  | Yes      |

Other  
Expenses

Other Expenses Not Listed

| Name                    | Description  |
|-------------------------|--|
| Network Switch          | Cisco 52-port Gigabit Switch connects devices together on computer network by using packet switching to receive, process, and forward data to destination device |
| Electrical Construction | Construction and modifications to the electrical infrastructure of the existing building as required to support the new transmitters                             |
| General Construction    | General construction and administrative costs necessary for the installation of transmitters in the existing building.   |
| Mechanical Construction | Construction and modifications to the HVAC infrastructure of the existing building as required to support the new transmitters                                   |

## 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 ULXTE-60</b>                           | <b>\$1,025,550.00</b>       | <b>\$1,002,912.41</b> |   | <b>\$835,300.14</b> |                           |
| Transformer<br>3 phase<br>/480v - 150<br>KVA                  | \$25,550.00                 | \$2,912.41            | ***System Notice:<br>Estimate adjusted and locked because line has been superseded.<br>***  | \$2,912.41          | N/A                       |
| UHF -<br>Liquid Cooled<br>Solid State<br>Transmitter<br>34 kW | <i>\$1,000,000.00</i>       | \$1,000,000.00        | A quote from Comark for a replacement IOT transmitter is attached. That quote is substantially higher than the catalog pricing amount for the proposed solid state transmitter. The proposed transmitter should be eligible for full reimbursement. | \$832,387.73        | N/A                       |
| <b>Auxiliary Transmitter ULXTE-20</b>                         | <b>\$520,050.00</b>         | <b>\$471,958.60</b>   |   | <b>\$237,104.94</b> |                           |

|  |                |                |  |                |     |
|--|----------------|----------------|--|----------------|-----|
| Transformer<br>3 phase<br>/480v - 150<br>KVA                           | \$25,550.00    | \$1,958.60     | ***System<br>Notice:<br>Estimate<br>adjusted and<br>locked<br>because line<br>has been<br>superseded.<br>*** | \$1,958.60     | N/A |
| UHF -<br>Liquid<br>Cooled<br>Solid State<br>Transmitter<br>8.2 - 13 kW | \$494,500.00   | \$470,000.00   | N/A  | \$235,146.34   | N/A |
| <b>Sub-total</b>   | \$1,545,600.00 | \$1,474,871.01 | N/A  | \$1,072,405.08 | N/A |
| <b>Total for all<br/>systems</b>                                       | \$2,983,785.70 | \$2,775,228.64 | N/A  | \$1,932,275.34 | N/A |

## Components

| Actual Information                    |  |
|---------------------------------------|--|
| Description                           | File Name  |
| Transformer 3 phase/480v -<br>150 KVA | <p><b>Component Description:</b> 50% Transformer included with Transmitter Cost on Invoice. See Quote line item 16. Purchase Order is for all 11 Sites.</p> <p><b>Amount:</b> \$2,912.41</p> |



|   |   |
|---|---|
| UHF - Liquid Cooled Solid State Transmitter 34 kW | <p><b>Component Description:</b> Main Transmitter Invoice Due Date revised to Vendor Terms N 60 Purchase Order includes all 11 sites.</p> <p><b>Amount:</b> \$380,102.58</p>  |
|   | <p><b>Component Description:</b> 50% Transmitter &amp; Installation, Installation included w /Transmitter on Form 399. Purchase Order includes all 11 sites. Transformer on line 16 of Quote is separate Form 399 Line Item.</p> <p><b>Amount:</b> \$452,285.15</p> |
| Transformer 3 phase/480v - 150 KVA                | <p><b>Component Description:</b> 50% of Transformer on Line 17 of quote is included with Transmitter Cost on Invoice. Purchase Order is for all 11 sites.</p> <p><b>Amount:</b> \$1,958.60</p>  |

UHF - Liquid Cooled Solid  
State Transmitter 8.2 - 13  
kW

**Component Description:**

50% Aux  
Transmitter &  
Installation  
(Installation  
included w  
/Transmitter on  
Form 399).  
Transformer on  
line 17 of quote  
separate Form  
399 Line Item.  
Purchase Order  
for all 11 sites.

**Amount:**

\$138,753.79

**Component Description:**

Aux. Transmitter.  
Credit for  
transformer  
applied with  
transmitter per  
FCC Hotline  
(Paige 7/8/2019)  
due to system  
error. Invoice due  
date corrected to  
vendor terms (net  
60). See  
attachment pgs. 2-  
4 for summary.

**Amount:**

\$96,392.55

## 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 SAA14-O4A-G300-ET5R-27</b>  | <b>\$308,530.00</b>         | <b>\$160,536.03</b> |                                      | <b>\$71,218.01</b> |                           |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)                     | \$12,300.00                 | \$11,700.00         | N/A                                  | 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 (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00                | \$142,436.03        | See RFS Antenna Narrative and quotes | \$71,218.01        | N/A                       |
| <b>Auxiliary Antenna SAA22-O3-G200-ES4R-27</b>   | <b>\$271,710.00</b>         | <b>\$187,076.00</b> |                                      | <b>\$72,288.00</b> |                           |

|  |             |             |     |     |     |
|--|-------------|-------------|-----|-----|-----|
| Pattern<br>scatter<br>analysis<br>for side<br>mount high<br>/med<br>power<br>antennas<br>(if not<br>included<br>in antenna<br>base cost) | \$5,260.00  | \$5,000.00  | N/A | N/A | N/A |
| Side<br>mount<br>brackets<br>for high<br>power<br>antennas<br>(if not<br>included<br>in antenna<br>base cost)                            | \$23,150.00 | \$22,000.00 | N/A | N/A | N/A |
| Elbow<br>complex,<br>single<br>channel,<br>at antenna<br>input, per<br>4 1/16.<br>feedline (if<br>needed)                                | \$9,570.00  | \$9,100.00  | N/A | N/A | N/A |
| Sweep<br>test of<br>existing<br>antenna  | \$6,730.00  | \$6,400.00  | N/A | N/A | N/A |

|  |                |                |                                     |                |     |
|--|----------------|----------------|-------------------------------------|----------------|-----|
| UHF -<br>Lower<br>Power<br>Side<br>Mount,<br>One<br>station<br>antenna --<br>200-500<br>kW,<br>elliptically<br>or<br>circularly<br>polarized | \$227,000.00   | \$144,576.00   | See RFS<br>Narrative<br>with quotes | \$72,288.00    | N/A |
| <b>Sub-total</b>   | \$580,240.00   | \$347,612.03   | N/A                                 | \$143,506.01   | N/A |
| <b>Total for<br/>all<br/>systems</b>   | \$2,983,785.70 | \$2,775,228.64 | N/A                                 | \$1,932,275.34 | N/A |

## Components

| Actual Information   |   |
|--|---|
| Description  | File Name   |
| 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 (200-1000 kW), One station antenna , elliptically or circularly polarized | <p><b>Component Description:</b> 50% Primary Antenna (See Bid Page 58 Attachment A Pricing Form Item 59) included in Inv &amp; PO Line 19. Invoice &amp; Purchase Order are for all 10 sites.</p> <p><b>Amount:</b> \$71,218.01</p> |

|  |  |
|--|--|
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | Information not provided.  |
| Side mount brackets for high power antennas (if not included in antenna base cost)                     | Information not provided.  |
| Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)                      | Information not provided.  |
| Sweep test of existing antenna   | Information not provided.  |
| UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized  | <div> <div> <b>Component Description:</b> </div> <div> 50% Auxilliary Antenna (See Bid Page 57 Attachment A Pricing Form Item 56) included in Inv &amp; PO Line 19. Invoice &amp; Purchase Order are for all 10 sites. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$72,288.00 </div> </div> |

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 |
|---|-----------------------------|----------------|---|----------------|---------------------------|
| Auxiliary Transmission Line               | \$113,600.00                | \$76,078.71    |   | \$38,039.36    |                           |
| Rigid Transmission Line - copper, 4 1/16" | \$113,600.00                | \$76,078.71    | See RFS Narrative with attached pricing | \$38,039.36    | N/A                       |
| Sub-total                                 | \$113,600.00                | \$76,078.71    | N/A                                     | \$38,039.36    | N/A                       |
| Total for all systems                     | \$2,983,785.70              | \$2,775,228.64 | N/A                                     | \$1,932,275.34 | N/A                       |

Components

| Actual Information Description            | File Name  |
|---|--|
| Rigid Transmission Line - copper, 4 1/16" | <div><div>Component Description:</div><div>50% Auxilliary Transmission Line (Bid Page 57 Attachment A Pricing Form Item 57) included in Inv &amp; PO Line 19. Invoice &amp; Purchase Order are for 10 sites.</div><div>Amount:</div><div>\$38,039.36</div></div> |

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 TOWER            | \$210,500.00                | \$257,406.56   |   | \$193,055.67   |                           |
| Tall Tower (greater than 500') | \$210,500.00                | \$257,406.56   | See RFS Narrative with attached Pricing | \$193,055.67   | N/A                       |
| Sub-total                      | \$210,500.00                | \$257,406.56   | N/A                                     | \$193,055.67   | N/A                       |
| Total for all systems          | \$2,983,785.70              | \$2,775,228.64 | N/A                                     | \$1,932,275.34 | N/A                       |

Components

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



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Tall Tower (greater than 500')

**Component Description:**

Auxiliary / interim antenna installation. Purchase Order is for 10 sites.

**Amount:**

\$64,351.89

**Component Description:**

See Bid Page 57 Attachment A Pricing Form Item 60) for Primary Antenna included in Inv & PO Line 20. Invoice & Purchase Order are for 10 sites.

**Amount:**

\$64,351.89

**Component Description:**

50% Primary/Tall Tower Installation (See Bid Page 58 Attachment A Pricing Form Item 58) for Auxilliary Antenna included in Inv & PO Line 20. Invoice & Purchase Order are for 10 sites.

**Amount:**

\$64,351.89

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Cost  
Information

Outside Professional Services

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

| Description  | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification   | Actual Cost  | Actual Cost Justification |
|--|-----------------------------|----------------|--|--------------|---------------------------|
| Outside Professional Services  | \$93,275.00                 | \$184,239.63   |  | \$122,251.59 |                           |
| Prepare and or review reimbursement form   | \$2,630.00                  | \$2,500.00     | N/A  | \$102.75     | N/A                       |
| Additional Legal Expenses  | <i>\$24,500.00</i>          | \$24,500.00    | Preliminary estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs. | \$4,622.21   | 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                       |

|  |            |            |     |     |     |
|--|------------|------------|-----|-----|-----|
| Attorney Fees<br>- Prepare and<br>File request<br>for Special<br>Temporary<br>Authorization  | \$3,680.00 | \$3,500.00 | 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 | N/A | N/A |
| Prepare<br>request for<br>Special<br>Temporary<br>Authorization  | \$2,050.00 | \$1,500.00 | 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 | \$525.00   | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application                                    | \$3,155.00 | \$3,000.00 | N/A | \$1,675.00 | N/A |
| Perform engineering study for new channel assignment and antenna development  | \$7,360.00 | \$2,000.00 | N/A | \$750.00   | 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 | \$18,960.00    | \$117,489.63   | See attachment "WUNP Program Designer - Manager Narrative" for details on estimated cost Amendment #3 attached to Invoice 157570 | \$112,076.63   | N/A |
| Tower Structural Analysis            | \$7,000.00     | \$7,000.00     | N/A  | \$2,500.00     | N/A |
| <b>Sub-total</b>                     | \$93,275.00    | \$184,239.63   | N/A  | \$122,251.59   | N/A |
| <b>Total for all systems</b>         | \$2,983,785.70 | \$2,775,228.64 | N/A  | \$1,932,275.34 | N/A |

## Components

| Actual Information                       |  |
|--|--|
| Description                              | File Name  |
| Prepare and or review reimbursement form | <p><b>Component Description:</b></p> <p>Outside Professional Services Prepare Reimbursement Wages &amp; Employer Portion Social Security for Temp Employee. Tasks applicable to all 11 repack sites, amount requested reflects portion payable per site.</p> <p><b>Amount:</b></p> <p>\$102.75</p> |
| Additional Legal Expenses                |  |

**Component Description:**

Outside  
Professional  
Services Additional  
Legal Expenses  
Legal services  
benefit entire FCC  
Repack project  
across all 11 Call  
Signs/Facility IDs,  
315.00/11 equal  
28.63 as outlined  
on page 1 of  
invoice.

**Amount:**

\$28.63

**Component Description:**

Outside  
Professional  
Services Additional  
Legal Expenses  
Legal services  
benefit entire FCC  
Repack project  
across all 11 Call  
Signs/Facility IDs,  
572.90/11 equal  
52.08 as outlined  
on page 1 of  
invoice.

**Amount:**

\$52.08

**Component Description:**

Outside  
Professional  
Services Additional  
Legal Expenses  
Legal services  
benefit entire FCC  
Repack project  
across all 11 Call  
Signs/Facility IDs,  
2059.90/11 equal  
187.26 as outlined  
on page 1 of  
invoice.

**Amount:**

\$187.26

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$67.40  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$35.00  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$73.00  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$35.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>959.50/11 equal<br>87.23 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$87.23   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>2594.40/11 equal<br>235.86 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$235.86  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$146.00   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional Svcs.<br>Additional Legal<br>Expenses |
| <b>Amount:</b>                | \$109.50  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside Prof. Svcs<br>Additional Legal<br>Expenses |
| <b>Amount:</b>                | \$182.50   |



|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>402.00/11 equal<br>36.54 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$36.54   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$105.00   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$474.50   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>1617.10/11 equal<br>147.01 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$147.01  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$539.20   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>67.40/11 equal<br>6.13 as outlined on<br>page 1 of invoice. |
| <b>Amount:</b>                | \$6.13   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$35.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>168.50/11 equal<br>15.32 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$15.32   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$33.70  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$885.70   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>323.00/11 equal<br>29.37 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$29.37   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Invoice applies to<br>all 11 repack<br>stations, amount<br>requested reflects<br>portion payable per<br>Station: \$245.00/11<br>as indicated on<br>page 1 of Invoice |
| <b>Amount:</b>                | \$22.27  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$70.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>350.00/11 equal<br>31.82 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$31.82   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$35.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across 10 of 11<br>Call Signs/Facility<br>IDs, 3378.88/10<br>equal 337.89 as<br>outlined on page 1<br>of invoice. |
| <b>Amount:</b>                | \$337.89  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>765.00/11 equal<br>69.54 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$69.54   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses |
| <b>Amount:</b>                | \$70.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>368.00/11 equal<br>33.45 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$33.45   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>175.00/11 equal<br>15.91 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$15.91   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Legal services<br>benefit entire FCC<br>Repack project<br>across all 11 Call<br>Signs/Facility IDs,<br>3472.00/11 equal<br>315.64 as outlined<br>on page 1 of<br>invoice. |
| <b>Amount:</b>                | \$315.64  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Additional<br>Legal Expenses<br>Invoice applies to<br>all 11 repack<br>stations, amount<br>requested reflects<br>portion payable per<br>Station: \$70.00/11<br>as indicated on<br>page 1 of Invoice |
| <b>Amount:</b>                | \$6.36  |

|  |  |   |
|--|--|---|
|  | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Outside Professional Services Additional Legal Expenses</p> <p>\$67.40</p> |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | Information not provided.                                  |   |
| ASR modification (prepare FCC Form 854)  | Information not provided.                                  |   |
| Attorney Fees - Prepare and File request for Special Temporary Authorization   | 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                                     | Information not provided.                                  |   |
| 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 | <b>Component Description:</b> | Outside Prof Svcs Consult Engineer CP for Aux  |
|   | <b>Amount:</b>                | \$525.00   |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application                                    | <b>Component Description:</b> | Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Main/Primary |
|   | <b>Amount:</b>                | \$1,675.00   |
| Perform engineering study for new channel assignment and antenna development  | <b>Component Description:</b> | Outside Professional Services Engineering Study New Channel Assignment Antenna Development                   |
|   | <b>Amount:</b>                | \$750.00   |
| Address transition timing and coordination issues w/ other stations and wireless  | Information not provided.     |  |
| Project management of the transition  |                               |  |



|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Project<br>Management of<br>Transition See<br>attachment pg 3-5<br>for Contract/Invoice<br>Summary. |
| <b>Amount:</b>                | \$5,141.83  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Project<br>Management of<br>Transition See<br>attachment pg. 3-6<br>for Contract/Invoice<br>Summary. PO<br>/Contract for all<br>eleven transmitter<br>sites. |
| <b>Amount:</b>                | \$3,792.19   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Project<br>Management of<br>Transition See<br>attachment pg 3-5<br>for Contract/Invoice<br>Summary. PO<br>/Contract for all<br>eleven transmitter<br>sites. |
| <b>Amount:</b>                | \$5,141.83  |

**Component Description:**

Outside Prof Svcs  
Proj Mgmt of  
Transition See  
attach pg. 2-5 for  
Contract/Invoice  
Summary.  
Amendment #3 on  
pg. 6. 12,800  
divided by 11 equal  
1,164.64 for 7 sites,  
1,164.63 for 4 sites.  
PO/Contract for all  
eleven transmitter  
sites.

**Amount:**

\$2,285.63

**Component Description:**

Outside  
Professional  
Services Project  
Management of  
Transition See  
attachment pg. 3-6  
for Contract/Invoice  
Summary. PO  
/Contract for all  
eleven transmitter  
sites.

**Amount:**

\$2,302.10

**Component Description:**

Outside  
Professional  
Services Project  
Management of  
Transition See  
attachment pg 3-6  
for Contract/Invoice  
Summary. PO  
/Contract for all  
eleven transmitter  
sites.

**Amount:**

\$10,283.66

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside Proj Svcs<br>Proj Mgmt of<br>Transition PO for<br>eleven multiple<br>sites See attach pg<br>3-6 for Contract<br>/Invoice summary |
| <b>Amount:</b>                | \$1,493.35   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Project<br>Management of<br>Transition See<br>attachment pg 3-5<br>for Contract/Invoice<br>Summary |
| <b>Amount:</b>                | \$49,675.80  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Project<br>Management of<br>Transition See<br>attachment pg 3-5<br>for Contract/Invoice<br>Summary |
| <b>Amount:</b>                | \$4,352.64   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Outside<br>Professional<br>Services Project<br>Management See<br>attachment pg. 3 &<br>4 for Project<br>Summary |
| <b>Amount:</b>                | \$9,022.50  |

|                           |   |   |
|---------------------------|---|---|
|                           | <b>Component Description:</b><br><br><b>Amount:</b> | Outside<br>Professional<br>Services Project<br>Management<br>\$9,022.50   |
|                           | <b>Component Description:</b><br><br><b>Amount:</b> | Outside<br>Professional<br>Services Project<br>Management of<br>Transition See<br>attachment pg 3-5<br>for Contract/Invoice<br>Summary<br>\$11,881.60 |
|                           | <b>Component Description:</b><br><br><b>Amount:</b> | Outside<br>Professional<br>Services Project<br>Management See<br>attachment pg. 3 &<br>4 for Project<br>Summary<br>\$6,703.50                         |
| Tower Structural Analysis | <b>Component Description:</b><br><br><b>Amount:</b> | Outside<br>Professional<br>Services Tower<br>Structural Analysis<br>See attachment<br>page 7 for schedule<br>of services.<br>\$2,500.00               |

## 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>\$440,570.70</b>         | <b>\$435,020.70</b> |  | <b>\$363,017.63</b> |                           |
| Mechanical Construction | <i>\$140,365.00</i>         | \$140,365.00        | See attached document WUNP GC Budget for justification and additional information      | \$132,154.91        | N/A                       |
| General Construction    | <i>\$65,071.24</i>          | \$65,071.24         | See attached document WUNP GC Budget for justification and additional information      | \$57,064.35         | N/A                       |
| Electrical Construction | <i>\$147,306.46</i>         | \$147,306.46        | See the attached document, WUNP GC Budget for justification and additional information | \$134,875.41        | N/A                       |
| Network Switch          | <i>\$1,048.00</i>           | \$1,048.00          | See attachment - WUNP Network Switch Justification                                     | \$1,047.97          | N/A                       |

|   |                    |                |  |                |     |
|---|--------------------|----------------|--|----------------|-----|
| MVPD<br>Notification of<br>Channel<br>Change  | <b>\$5,500.00</b>  | \$5,500.00     | Preliminary<br>estimate of<br>service                                | \$463.64       | N/A |
| Develop and<br>air<br>announcement<br>of upcoming<br>channel<br>change                  | <b>\$2,000.00</b>  | \$2,000.00     | Preliminary<br>estimate  | N/A            | N/A |
| Disposal<br>Costs (for<br>equipment and<br>other waste,<br>net of any<br>salvage value) | <b>\$67,730.00</b> | \$67,730.00    | Quotes for<br>disposal of<br>both<br>transmitters<br>are<br>attached | \$33,661.35    | N/A |
| DTV Medical<br>Facility<br>Notification   | \$11,550.00        | \$6,000.00     | Preliminary<br>estimate of<br>service                                | \$3,750.00     | N/A |
| <b>Sub-total</b>  | \$440,570.70       | \$435,020.70   | N/A  | \$363,017.63   | N/A |
| <b>Total for all<br/>systems</b>  | \$2,983,785.70     | \$2,775,228.64 | N/A  | \$1,932,275.34 | N/A |

## Components

**Actual Information**  
**Description**

**File Name**

|                         |  |
|-------------------------|--|
| Mechanical Construction | <div> <div>Component Description:</div> <div>Mechanical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</div> </div> <div> <div>Amount:</div> <div>\$128,117.41</div> </div> |
|                         | <div> <div>Component Description:</div> <div>Mechanical Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</div> </div> <div> <div>Amount:</div> <div>\$4,037.50</div> </div>   |
| General Construction    | <div> <div>Component Description:</div> <div>General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</div> </div> <div> <div>Amount:</div> <div>\$1,353.29</div> </div>      |
|                         | <div> <div>Component Description:</div> <div>General Contract See attach pg 1 for payment details by FACId/Call. See attach last page for Purchase Order Summary for multiple sites.</div> </div> <div> <div>Amount:</div> <div>\$33,689.27</div> </div>     |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Other Expenses<br>General Contract<br>See attachment pg<br>1 for payment<br>details by contract<br>/site including<br>payment<br>responsibility. PO<br>for 6 sites. |
| <b>Amount:</b>                | \$8,395.67  |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | General Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
| <b>Amount:</b>                | \$1,057.24   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | General Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
| <b>Amount:</b>                | \$8,821.99   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | General Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
| <b>Amount:</b>                | \$3,746.89   |



|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Electrical Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
| <b>Amount:</b>                | \$8,643.27  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Electrical Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
| <b>Amount:</b>                | \$14,456.42   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Electrical Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
| <b>Amount:</b>                | \$20,354.44   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Other Expenses<br>Electrical Contract<br>See attachment pg<br>1 for payment<br>details by contract<br>/site including<br>payment<br>responsibility. PO<br>for 6 sites. |
| <b>Amount:</b>                | \$14,227.20  |

|   |                               |   |
|---|-------------------------------|---|
|   | <b>Component Description:</b> | Electrical Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
|   | <b>Amount:</b>                | \$7,401.37  |
|   | <b>Component Description:</b> | Electrical Contract<br>See attach pg 1 for<br>payment details by<br>FACId/Call. See<br>attach last page<br>for Purchase<br>Order Summary<br>for multiple sites. |
|   | <b>Amount:</b>                | \$69,792.71   |
| Network Switch  | <b>Component Description:</b> | Other Expenses<br>Network Switch 11<br>Switches for total<br>of 11,527.67<br>equals 1,047.97<br>per transmitter<br>site.  |
|   | <b>Amount:</b>                | \$1,047.97  |
| MVPD Notification of<br>Channel Change                        | <b>Component Description:</b> | MVPD Notify See<br>attach pg. 12-13<br>\$5,100 for 11 sites<br>equal 463.64 each  |
|   | <b>Amount:</b>                | \$463.64  |
| Develop and air<br>announcement of upcoming<br>channel change | Information not provided.     |   |

|   |  |                                      |  |                       |                    |                                      |  |                       |                    |
|---|--|--------------------------------------|--|-----------------------|--------------------|--------------------------------------|--|-----------------------|--------------------|
| <p>Disposal Costs (for equipment and other waste, net of any salvage value)</p> | <table> <tr> <td data-bbox="707 98 1114 376"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 98 1428 376"> <p>50% Aux Transmitter Disposal. Purchase Order is for all 11 sites.</p> </td></tr> <tr> <td data-bbox="707 376 1114 488"> <p><b>Amount:</b></p> </td><td data-bbox="1114 376 1428 488"> <p>\$13,782.60</p> </td></tr> <tr> <td data-bbox="707 488 1114 801"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 488 1428 801"> <p>50% Primary Transmitter Disposal. Purchase Order is for all 11 sites.</p> </td></tr> <tr> <td data-bbox="707 801 1114 913"> <p><b>Amount:</b></p> </td><td data-bbox="1114 801 1428 913"> <p>\$19,878.75</p> </td></tr> </table> | <p><b>Component Description:</b></p> | <p>50% Aux Transmitter Disposal. Purchase Order is for all 11 sites.</p> | <p><b>Amount:</b></p> | <p>\$13,782.60</p> | <p><b>Component Description:</b></p> | <p>50% Primary Transmitter Disposal. Purchase Order is for all 11 sites.</p> | <p><b>Amount:</b></p> | <p>\$19,878.75</p> |
| <p><b>Component Description:</b></p>  | <p>50% Aux Transmitter Disposal. Purchase Order is for all 11 sites.</p>   |                                      |  |                       |                    |                                      |  |                       |                    |
| <p><b>Amount:</b></p>   | <p>\$13,782.60</p>   |                                      |  |                       |                    |                                      |  |                       |                    |
| <p><b>Component Description:</b></p>  | <p>50% Primary Transmitter Disposal. Purchase Order is for all 11 sites.</p>   |                                      |  |                       |                    |                                      |  |                       |                    |
| <p><b>Amount:</b></p>   | <p>\$19,878.75</p>   |                                      |  |                       |                    |                                      |  |                       |                    |
| <p>DTV Medical Facility Notification</p>  | <table> <tr> <td data-bbox="707 801 1114 958"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 801 1428 958"> <p>Other Expenses DTV Med Notify</p> </td></tr> <tr> <td data-bbox="707 958 1114 1055"> <p><b>Amount:</b></p> </td><td data-bbox="1114 958 1428 1055"> <p>\$3,750.00</p> </td></tr> </table>   | <p><b>Component Description:</b></p> | <p>Other Expenses DTV Med Notify</p>                                     | <p><b>Amount:</b></p> | <p>\$3,750.00</p>  |                                      |  |                       |                    |
| <p><b>Component Description:</b></p>  | <p>Other Expenses DTV Med Notify</p>   |                                      |  |                       |                    |                                      |  |                       |                    |
| <p><b>Amount:</b></p>   | <p>\$3,750.00</p>  |                                      |  |                       |                    |                                      |  |                       |                    |

**Cost  
Information**

**Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost    |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$2,983,785.70                 | \$2,775,228.64 | \$1,932,275.34 |

**Reimbursement Status**

| Question   | Response |
|--|----------|
| The facility has ceased operating on its pre-auction channel.  | Yes      |
| 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>Donald Smith</b><br/> <i>Director of New Technologies Compliance &amp; Planning</i></p> <p>01/24/2020</p> |

| Certification | Section  | Question   | Response |
|---------------|--|--|----------|
|               | Submission of Actual Cost Documentation Statements | <p>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).</p>   |          |
|               |  | <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 Levin</b><br/> <i>Director of Finance and Administration</i></p> <p>01/24/2020</p> |

## Attachments