

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Date

Facility 49439 Service: DTV Call WNEO Channel: 29 (UHF)

ID:

Sign:

File **0000027699**

Number:

FRN: **0002940336**

03/12

Submitted: /2020

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|-----------------------------|------------------------------------|--------------------|
| NORTHEASTERN EDUCATIONAL TELEVISION OF OHIO, INC. | Anthony Dennis 1750 CAMPUS CENTER DRIVE P.O. BOX 5191 KENT, OH 44240 United States | +1 (330) 677- 4549 | adennis@westernreservepublicmedia. | Not-for- Profit |

Reimbursement Contact Name and Information Reimbursement Contact Information

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

Prepa

Preparer

Preparer Contact Name and Information

| Contact Information | Applicant | Address | Phone | Email |
|---------------------|-----------|---------|-------|-------|
| minorination | | | | |

| Robert Gehman ConsultingEngineer Kessler and Gehman Associates, Inc. | Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States | +1 (352) 332-3157 | bob@kesslerandgehman. 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 | Retune transmitter, replace antenna and line. Acquire interim transmitter, antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. |

Transmitters

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

Primary Transmitter

Existing Transmitter Information

| Section | Question | Response |
|----------------------------------|--|--------------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter | Manufacturer | |
| Manufacturer and Type | Model | CTT-U- DCXP-2H |
| | Year | 2003 |
| | Туре | Inductive 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-40 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 25.3 kW |
| | Justification for New Transmitter | Existing transmitter is an MSDC |

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 |
| HVAC Service | Does the replacement transmitter require HVAC Service? | No |

| | Туре | N/A |
|---|--|-----|
| | Size | N/A |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leashold improvement? | No |
| | Size | N/A |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

Primary Transmitter

Other Transmitter Cost Not Listed

| Name | Description |
|------------------------|------------------------|
| Transmitter Electrical | Transmitter Electrical |

Interim Transmitter

New Transmitter Costs

| Section | Question | Response |
|-----------------|-----------------------------------|--|
| New Transmitter | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase |
| | Manufacturer | |
| | Model | TBD |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 31 kW |
| | Justification for New Transmitter | To keep the station on the air while retuning the MSDC and for the duration of the assigned phase. |

Interim Transmitter

Other Transmitter Costs

| Section | Question | Response |
|--------------------|---------------------------------------|------------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | Yes |
| | Transformer (480V) | Yes |
| | Power | |
| | Rigid Conduit and Wiring | Yes |
| | Size | 3 inches |
| | Length | 100.0 feet |

| Other Electrical Service | No |
|--|---|
| Description | N/A |
| Does the replacement transmitter require HVAC Service? | No |
| Туре | N/A |
| Size | N/A |
| Other Size | N/A |
| Does the Transmitter Building require an addition, modification, other leashold improvement? | No |
| Size | N/A |
| 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 |
| Is an additional interior RF system required to support this interim transmitter? | Yes |
| | Description Does the replacement transmitter require HVAC Service? Type Size Other Size Does the Transmitter Building require an addition, modification, other leashold improvement? Size Is an RF Consulting Engineer needed? Is a channel 14 Mask Filer needed? Is additional field engineering time needed? Number of Days Is an additional interior RF system required |

Interim

Other Transmitter Cost Not Listed

Transmitter Information not provided.

Antennas

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

Existing Antenna Information

| Section | Question | Response |
|------------------------------|--|--------------------|
| Existing Antenna Description | Type of change | Purchase New |
| | Antenna Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | No |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | No |
| Existing Antenna | Class | Full Power |
| Manufacturer and Type | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Туре | Slotted 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) | 500.0 kW |

| Manufacturer | |
|--------------|---------|
| Model | TFU-42J |
| Year | 2003 |

New Antenna Costs

| Section | Question | Response |
|------------------------|--|----------------------------|
| New Antenna | Use | Primary (Main) |
| Description | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna | Class | Full Power |
| Manufacturer and Types | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Туре | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | Slotted Coaxial |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 465.0 kW |
| | Manufacturer | |
| | Model | TFU-31JTH /VP-R 04 (SP) |

| Year | 2018 |
|-------------------------------|---|
| Justification for New Antenna | The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel. |

Other Antenna Costs

| Section | Question | Response |
|--------------------------------|---|----------------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | |
| | Туре | |
| | Number of channels supported | N/A |
| | Frequencies of channels supported | N/A |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | N/A |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | Single Channel |
| | Feed Line Size | 7 3/16 inches inches |
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for a high power antenna? | |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |

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

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

| Section | Question | Response |
|-------------------------|--|-----------------------|
| New Antenna Description | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna | Class | Full Power |
| Manufacturer and Type | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Туре | 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) | 500.0 kW |
| | Manufacturer | |
| | Model | ATW29H3- HSO10-29H |
| | Year | 2018 |

| Justification for New Antenna | An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the |
|-------------------------------|---|
| | primary |
| | antenna |
| | replacement |
| | and for the |
| | duration of |
| | the |
| | assigned |
| | phase. |
| | Station will |
| | attempt to |
| | rent if |
| | renting is |
| | available at |
| | time of acquisition. |
| | acquisition. |

Interim Antenna

Other Antenna Costs

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

Interim Antenna

Other Antenna Cost Not Listed

| Name | Description |
|-----------|-------------|
| Air Dryer | Air Dryer |

| Transmission ^{Seffien} | Question | Response |
|------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | Yes |

Primary Transmission Line

Existing Transmission Line

| on Line Section | Question | Response |
|--|--|---------------------|
| Existing Transmission Line Description | 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 |
| Existing Transmission Line Manufacturer and Type | Manufacturer | |
| | Туре | Rigid |
| | Diameter | 8 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 19 1/2 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 920 feet per run |

New Transmission Line

| Primary | 11011 110 |
|-------------|-------------------|
| Transmissio | n Line Settion |

| New Transmission Line |
|-----------------------|
| Costs |

| Question | Response |
|---|--|
| Use | Primary (Main) |
| Description of Use | N/A |
| Change Type | Purchase New |
| Is this a request for upgraded equipment? | No |
| Туре | Rigid |
| Diameter | 7 3/16 inches |
| Other Diameter | N/A |
| Segment Length | 20 inches |
| Other Segment Length | N/A |
| Number of parallel runs | 1 |
| Length | 760 feet per |
| Justification for New Transmission Line | Station is budgeting for new transmission line in case the sweep of the existing line is found to be unacceptable. |

Primary Transmis

Other Transmission Line Expenses Not Listed

| ansmissior | n <mark>Laine</mark> | Description | |
|------------|-----------------------------|-----------------------------|--|
| | Sweep of existing main line | Sweep of existing main line | |
| | TLSCRs | TLSCRs | |

New Transmission Line

Interim Transmission

| n Line Section | Question | Response |
|-----------------------|---|--|
| New Transmission Line | Use | Interim |
| Costs | Description of Use | N/A |
| | Change Type | Purchase New |
| | Туре | Flexible Air |
| | Diameter | 5 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 820 feet per run |
| | Justification for New Transmission Line | An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition. |

Interim Other Transmission Line Expenses Not Listed

Transmission loine tion 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 | 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? | 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? | No |
| | Is tower compliant with Rev G? | No |
| Existing Tower | Do you have a tower registration number? | Yes |
| Structure Registration | ASR Number | 1021036 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 40° 54' 23.2" N- |
| | Longitude (NAD83) | 080° 54' 39.3" W- |
| | Overall Structure Height | 766.07 feet |
| | Support Structure Height | 702.42 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 1274.92 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| Tower Owner | NORTHEASTERN EDUCATIONAL TV OF OHIO INC |
|------------------|---|
| Date Constructed | 01/15/1990 |

Primary Tower

Tower Modification Costs

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

Information not provided.

Outside Professional

| Section | Question | Response |
|--|--|---|
| Services Costs Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 20 |
| | Explanation | It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects. |
| Outside RF consulting Engineering Services | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |

| | Quantity | 1 |
|--|--|-----|
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| Attorney and Other Outside Consulting Services | Prepare and file Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | 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 |
| RF Field Engineering Services | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | No |
| | Additional Field Engineering Service | Yes |
| | | |

| Number of Days | 14 |
|----------------|---|
| Justification | It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services. |

Outside Professional

Other Professional Services Expenses Not Listed

| al | Services Costs | Description |
|----|----------------------------|----------------------------|
| | Other Engineering Services | Other Engineering Services |

Other Expenses

| Section | Question | | |
|---------------------------------|--|-----|--|
| AM Pattern Disturbance | Is an Impact Study needed? | No | |
| | Is Remediation needed? | No | |
| Facility Expenses | 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 | |
| Permit and Filing Costs | Local Zoning | No | |
| | Non-zoning permits | Yes | |
| | BLM or NFS Coordination | No | |
| | FCC Construction Permit Minor Change | No | |
| | FCC License to Cover Application | No | |
| | FCC Special Temporary Authority Application | No | |
| Other Miscellaneous Expenses | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)? | Yes | |
| | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | Yes | |
| | Does this relocation require Equipment Storage? | Yes | |
| | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change? | Yes | |
| | Does this relocation require MVPD Notification of a Channel Change? | Yes | |

Other Expenses

Other Expenses Not Listed

| Name | Description |
|---|---|
| Simulcast FCC required spots and crawls | Simulcast FCC required spots and crawls |

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 |
|---|--------------------------------|-------------------|--|--------------|------------------------------|
| Interim Transmitter TBD | \$1,163,450.00 | \$1,105,500.00 | | \$0.00 | |
| UHF inside RF system including switching | \$147,500.00 | \$140,000.00 | The UHF inside RF system is included in the online Cost Catalog and was pre-filled as a Predetermined Cost Estimate with a value of \$140,000. | N/A | N/A |
| 3" Rigid Conduit and Wiring (Cost per foot) | \$5,200.00 | \$4,900.00 | N/A | N/A | N/A |
| Transformer 3 phase /480v - 150 KVA | \$25,550.00 | \$24,300.00 | N/A | N/A | N/A |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | \$947,000.00 | \$900,000.00 | N/A | N/A | N/A |
| Primary Transmitter ULXTE-40 | \$983,500.00 | \$771,800.92 | | \$738,520.92 | |

| Transmitter Electrical | \$36,500.00 | \$36,500.00 | See attached /uploaded PDF file titled "Priest 000166 v200120jgv1. pdf" | \$36,500.00 | N/A |
|---|----------------|----------------|--|----------------|-----|
| | | | | | |
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | \$947,000.00 | \$735,300.92 | See attached / uploaded PDF file titled "Gates US0334211 Prim TX Bal Due v200128jgv1. pdf" | \$702,020.92 | N/A |
| Sub-total | \$2,146,950.00 | \$1,877,300.92 | N/A | \$738,520.92 | N/A |
| Total for all systems | \$3,882,126.45 | \$3,429,211.98 | N/A | \$1,186,151.94 | N/A |

Components

| Actual Information Description | File Name |
|---|---------------------------|
| UHF inside RF system including switching | Information not provided. |
| 3" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| Transformer 3 phase/480v - 150 KVA | Information not provided. |
| Switchgear - industrial 800 amp | Information not provided. |
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | Information not provided. |

| Fransmitter Electrical | | |
|------------------------------|------------------------|-------------------|
| | Component Description: | Priest 000166 |
| | | v200120jgv1 |
| | Amount: | \$18,250.00 |
| | Component Description: | Priest 000169 |
| | | v200312jgv1 |
| | Amount: | \$18,250.00 |
| UHF - Liquid Cooled Solid | | |
| State Transmitter 21 - 31 kW | Component Description: | Gates |
| | | JW3004686V.1 |
| | | Prim TX 1-3rd pmt |
| | | 1 v191010jgv4 |
| | Amount: | \$241,166.39 |
| | Component Description: | Gates |
| | Component Description. | JW3004686V.2 |
| | | Prim TX 1-3rd pmt |
| | | 2 v191225jgv1 |
| | Amount: | \$241,166.39 |
| | Component Description: | Gates US0334211 |
| | Component Description. | Prim TX Bal Due |
| | | v200128jgv1 |
| | Amount: | \$219,688.14 |
| | Component Description | Amazon 112- |
| | Component Description: | 8608938-4389045 |
| | | v200203jgv1 |
| | Amount: | \$147.00 |

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 |
|--|--------------------------------|-------------------|------------------------------------|--------------|------------------------------|
| Interim Antenna ATW29H3- HSO10-29H | \$185,318.45 | \$174,803.45 | | \$157,323.09 | |
| Air Dryer | \$4,298.45 | \$4,298.45 | N/A | \$3,868.59 | N/A |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | \$5,260.00 | \$4,800.00 | N/A | \$4,320.00 | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | \$23,150.00 | \$13,575.00 | N/A | \$12,217.50 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,250.00 | N/A | \$5,625.00 | N/A |

| UHF - High Power, Side Mount, basic slot antenna, 500 kW input, horizontally polarized | \$145,880.00 | \$145,880.00 | N/A | \$131,292.00 | N/A |
|---|--------------|--------------|--|--------------|-----|
| Primary Antenna TFU-31JTH /VP-R 04 (SP) | \$310,130.00 | \$232,095.00 | | \$104,442.75 | |
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed) | \$13,900.00 | \$13,736.00 | N/A | \$6,181.20 | N/A |
| UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized | \$289,500.00 | \$211,959.00 | N/A | \$95,381.55 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | See quote attached; item 4. to sweep new primary line and antenna. | \$2,880.00 | N/A |
| Sub-total | \$495,448.45 | \$406,898.45 | N/A | \$261,765.84 | N/A |

| all systems | 9,211.98 N/A \$1,186,151.94 N/A | \$3,429,211.98 | \$3,882,126.45 | |
|----------------|---------------------------------|----------------|----------------|--|
|----------------|---------------------------------|----------------|----------------|--|

Components

| Actual Information Description | File Name | |
|--------------------------------|------------------------|--|
| Air Dryer | | |
| | Component Description: | ERI WNEO-37763 Int line dryer 30 pct pmt 2 |
| | Amount: | v191223jgv1 \$1,289.53 |
| | Amount. | ψ1,203.33 |
| | Component Description | ERI WNEO-002 |
| | Component Description: | Int line dryer 30 |
| | | pct pmt 1 |
| | | v190814jgv1 |
| | Amount: | \$1,289.53 |
| | | |
| | Component Description: | ERI WNEO-37763- |
| | | 1 Int line dryer 30 |
| | | pct pmt 3 v191223jgv1 |
| | Amount: | \$1,289.53 |
| | | |

Pattern scatter analysis for side mount high/med power **ERI WNEO-37763 Component Description:** antennas (if not included in Int ant patt scatt antenna base cost) 30 pct pmt 2 v191223jgv1 Amount: \$1,440.00 **Component Description:** ERI WNEO-002 Int ant patt scatt 30 pct pmt 1 v190814jgv1 **Amount:** \$1,440.00 **Component Description:** ERI WNEO-37763-1 Int ant patt scatt 30 pct pmt 3 v191223jgv1 Amount: \$1,440.00 Side mount brackets for high power antennas (if not **Component Description: ERI WNEO-37763** included in antenna base Int ant side mt cost) bkts 30 pct pmt 2 v191223jgv1 Amount: \$4,072.50 **Component Description:** ERI WNEO-37763-1 Int ant side mt bkts 30 pct pmt 3 v191223jgv1 **Amount:** \$4,072.50 **Component Description:** ERI WNEO-002 Int ant side mt bkts 30 pct pmt 1 v190814jgv1 \$4,072.50 **Amount:**

| Sweep test of existing antenna | Component Description: | ERI WNEO-37763 Int ant sweep 30 |
|--|-------------------------------|---|
| | | pct pmt 2 |
| | | v191223jgv1 |
| | Amount: | \$1,875.00 |
| | Component Description: | ERI WNEO-002 Int ant sweep 30 |
| | | pct pmt 1 v190814jgv1 |
| | Amount: | \$1,875.00 |
| | Component Description: | ERI WNEO-37763- |
| | | 1 Int ant sweep 30 |
| | | pct pmt 3 |
| | | v191223jgv1 |
| | Amount: | \$1,875.00 |
| UHF - High Power, Side Mount, basic slot antenna, | | |
| 500 kW input, horizontally polarized | Component Description: | ERI WNEO-37763 Int ant 30 pct pmt 2 v191223jgv1 |
| | Amount: | \$43,764.00 |
| | Component Description: | ERI WNEO-37763- |
| | | 1 Int ant 30 pct |
| | | pmt 3 |
| | A | v191223jgv1 |
| | Amount: | \$43,764.00 |
| | Component Description: | ERI WNEO-002 |
| | | Int ant 30 pct pmt |
| | Amount | 1 v190814jgv1 |
| | Amount: | \$43,764.00 |
| Elbow complex, single | | |
| channel, at antenna input, per 7 3/16. feedline (if | Component Description: | Die MAN01463 |
| SOLI OLI OLI IOUGIII IU III | | |
| needed) | | v200217jgv1 \$6,181.20 |

| UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized | Component Description: Amount: | Die MAN01463 v200217jgv1 \$95,381.55 |
|---|--------------------------------|--|
| Sweep test of existing | | |
| antenna | Component Description: | Die MAN01463 |
| | | v200217jgv1 |
| | Amount: | \$2,880.00 |

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 |
|--|--------------------------------|-------------------|--|----------------|-------------|
| Interim Transmission Line | \$86,100.00 | \$50,365.01 | | \$45,328.50 | |
| Flexible Air Transmission Line - dielectric, 5" | \$86,100.00 | \$50,365.01 | N/A | \$45,328.50 | N/A |
| Primary Transmission Line | \$233,931.00 | \$176,080.60 | | \$81,433.52 | |
| TLSCRs | \$9,536.00 | \$9,536.00 | See attached / uploaded PDF file titled "Die MAN01463 v200217jgv1. pdf" | \$4,291.20 | N/A |
| Sweep of existing main line | \$3,995.00 | \$3,995.00 | See attached / uploaded PDF file titled "Gates US0328140 Sweep v200129jgv1. pdf" | \$3,995.00 | N/A |
| Rigid Transmission Line - copper, 7 3 /16" | \$220,400.00 | \$162,549.60 | N/A | \$73,147.32 | N/A |
| Sub-total | \$320,031.00 | \$226,445.61 | N/A | \$126,762.02 | N/A |
| Total for all systems | \$3,882,126.45 | \$3,429,211.98 | N/A | \$1,186,151.94 | N/A |

Components

| Actual Information Description | File Name | |
|--|---------------------------------|---|
| Flexible Air Transmission Line - dielectric, 5" | Component Description: Amount: | ERI WNEO-37763 Int line 30 pct pmt 2 v191223jgv1 \$15,109.50 |
| | Component Description: | ERI WNEO-37763- 1 Int line 30 pct pmt 3 v191223jgv1 |
| | Amount: | \$15,109.50 |
| | Component Description: Amount: | ERI WNEO-002 Int line 30 pct pmt 1 v190814jgv1 \$15,109.50 |
| TLSCRs | | , |
| . 2001.0 | Component Description: Amount: | Die MAN01463 v200217jgv1 \$4,291.20 |
| Sweep of existing main line | Component Description: | Gates US0328140 Sweep v200213jgv2 |
| | Amount: | \$3,995.00 |
| Rigid Transmission Line - copper, 7 3/16" | Component Description: Amount: | Die MAN01463 v200217jgv1 \$73,147.32 |
| | | |

Tower Equipment and Rigging Costs

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

| | | | Estimated | | |
|--|-----------------------------|-------------------|-----------------------|----------------|------------------------------|
| Description | Predetermined Cost Estimate | Estimated Cost | Cost Justification | Actual Cost | Actual Cost Justification |
| Primary Tower TOWER | \$657,800.00 | \$625,000.00 | | \$0.00 | |
| Tall Tower (greater than 500') | \$210,500.00 | \$200,000.00 | N/A | N/A | N/A |
| Major tower reinforcement /modifications | \$421,000.00 | \$400,000.00 | N/A | N/A | N/A |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | \$26,300.00 | \$25,000.00 | N/A | N/A | N/A |
| Sub-total | \$657,800.00 | \$625,000.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,882,126.45 | \$3,429,211.98 | N/A | \$1,186,151.94 | N/A |

Components

Information not provided.

Outside Professional Services

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual (|
|--|--------------------------------|-------------------|---|-------------|------------------------------|
| Outside Professional Services | \$160,280.00 | \$192,500.00 | | \$16,590.50 | |
| Other Engineering Services | \$10,000.00 | \$10,000.00 | Cost estimate for other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc. | \$75.00 | N |
| Additional Field Engineering Service, 14 Days | \$28,000.00 | \$28,000.00 | N/A | \$525.00 | Additior Engin Service |

| Compr | \$0.00 | N/A | \$80,000.00 | \$84,200.00 | Comprehensive |
|------------|--------|-----|-------------|-------------|---------------------------|
| coverifica | | | | | coverage verification via |
| field | | | | | |
| WNEC | | | | | field study, if needed |
| VVINEC | | | | | needed |
| measu | | | | | |
| to be u | | | | | |
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| Cons | | | | | |
| Engi | | | | | |
| WNE | | | | | |
| quote a | | | | | |
| for ref | | | | | |
| 1 | N/A | N/A | \$2,000.00 | \$2,105.00 | FAA |
| | | | | | consultant, |
| | | | | | including cost |
| | | | | | of preparing |
| | | | | | FAA Form |
| | | | | | 7460 (Notice of Proposed |
| | | | | | Construction), |
| | | | | | if needed for |
| | | | | | height increase |
| ١ | N/A | N/A | \$2,000.00 | \$2,105.00 | ASR |
| | | | | | modification |
| | | | | | (prepare FCC |
| | | | | | Form 854) |
| 1 | N/A | N/A | \$3,500.00 | \$3,680.00 | Attorney Fees - |
| | | | | | Prepare and |
| | | | | | File request for |
| | | | | | Special Tomporary |
| | | | | | Temporary Authorization |
| | | | | | Aditionzation |
| 1 | N/A | N/A | \$2,250.00 | \$2,365.00 | Attorney Fees - |
| | | | | | Prepare and |
| | | | | | File FCC Form |
| | | | | | 2100 (main), |
| | | | | | License to |
| | | | | | L'OVOR |
| | | | | | Cover Application |

| Ar section Con F App Mai | \$1,173.50 | N/A | \$5,000.00 | \$5,260.00 | Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application |
|---|------------|-----|------------|------------|--|
| | N/A | N/A | \$1,500.00 | \$2,050.00 | Prepare request for Special Temporary Authorization |
| | N/A | N/A | \$1,500.00 | \$1,580.00 | Prepare engineering section of FCC Form 2100 (main), License to Cover Application |
| Eng section Cor Ap Mai WN the C En WN quote for r | \$3,000.00 | N/A | \$3,000.00 | \$3,155.00 | Prepare engineering section of FCC Form 2100 (main), Construction Permit Application |
| Eng stud cl ass and deve | \$7,000.00 | N/A | \$7,000.00 | \$7,360.00 | Perform engineering study for new channel assignment and antenna development |

| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$2,500.00 | N/A | N/A | N |
|--|----------------|----------------|--|----------------|---|
| Prepare and or review reimbursement form | \$2,630.00 | \$15,000.00 | The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and ongoing Actual Cost invoice prep and submission by KGA. | \$4,817.00 | N |
| Project management of the transition | \$3,160.00 | \$29,250.00 | N/A | N/A | N |
| Sub-total | \$160,280.00 | \$192,500.00 | N/A | \$16,590.50 | N |
| Total for all systems | \$3,882,126.45 | \$3,429,211.98 | N/A | \$1,186,151.94 | N |
| | | | | | |

Components

| Actual Information Description | File Name | |
|--------------------------------|------------------------|---------------------------|
| Other Engineering Services | | |
| | Component Description: | KGA 930-44 v191220jgv1 |
| | Amount: | \$75.00 |

Additional Field Engineering Service, 14 **Component Description:** Credit Memo Days requested by FCC for WNEO (\$300.00)Amount: **Component Description:** Additional Field Engineering Service WNEO Site Prep Amount: \$300.00 **Component Description:** Additional Field Engineering Service WNEO Site Prep Amount: \$225.00 **Component Description:** WNEO - Additional Field Engineering Service - Budget meeting and RF Inventory Amount: \$300.00 Comprehensive coverage verification via field study, **Component Description:** Comprehensive if needed Coverage Verification, Field Strength Measurements

WNEO

Amount: \$31,718.50

Component Description: Comprehensive

coverage

verification via field study WNEO

Amount: \$31,718.50

| 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 - Prepare and File FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | Attorney section of Form FCC Construction Permit Application Main Facility WNEO \$933.00 |
| | Component Description: Amount: | Attorney section of Form FCC Construction Permit Application Main Facility WNEO \$134.00 |
| | Component Description: Amount: | Attorney section of Form FCC Construction Permit Application Main Facility WNEO \$106.50 |
| Prepare request for Special Temporary Authorization | Information not provided. | |

| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. | |
|--|---------------------------------|--|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | Engineering section of Form FCC Construction Permit Application Main Facility WNEO. See KGA Quote attached. \$3,000.00 |
| Perform engineering study for new channel assignment and antenna development | Component Description: Amount: | Engineering study for new channel assignment and antenna development WNEO \$7,000.00 |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. | |

| Prepare and or review | | |
|--------------------------------------|---------------------------|-------------------|
| reimbursement form | Component Description: | Prepare or Review |
| | | FCC Form 399 for |
| | | Reimbursement |
| | | WNEO |
| | Amount: | \$2,500.00 |
| | Component Description: | Prepare or Review |
| | | FCC Form 399 for |
| | | Reimbursement |
| | | WNEO Attorney |
| | | Review |
| | Amount: | \$392.00 |
| | Component Description: | KGA 930-70 |
| | | v191220jgv1 |
| | Amount: | \$1,925.00 |
| Project management of the transition | Information not provided. | |

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 |
|--|-----------------------------|-------------------|--|-------------|------------------------------|
| Other Expenses | \$101,617.00 | \$101,067.00 | | \$42,512.66 | |
| Develop and air announcement of upcoming channel change | \$0.00 | \$0.00 | N/A | N/A | N/A |
| Equipment Storage | \$25,000.00 | \$25,000.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$11,000.00 | N/A | N/A | N/A |
| MVPD Notification of Channel Change | \$2,000.00 | \$2,000.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | \$25,000.00 | \$25,000.00 | N/A | \$7,445.66 | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$28,820.00 | \$28,820.00 | See attached Quote and Invoices by Priest Construction | \$28,820.00 | N/A |
| Non-zoning permits | \$3,000.00 | \$3,000.00 | N/A | N/A | N/A |

| Simulcast FCC required spots and crawls | \$6,247.00 | \$6,247.00 | See uploaded / attached PDF file titled "Litewire 11491 v200124jgv1. pdf" | \$6,247.00 | N/A |
|--|----------------|----------------|---|----------------|-----|
| Sub-total | \$101,617.00 | \$101,067.00 | N/A | \$42,512.66 | N/A |
| Total for all systems | \$3,882,126.45 | \$3,429,211.98 | N/A | \$1,186,151.94 | N/A |

Components

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

| Equipment Delivery and Handling Charges | Component Description | Harbor Eroight |
|--|---------------------------|-----------------------------|
| | Component Description: | Harbor Freight 00041J |
| | | v200204jgv1 |
| | Amount: | \$223.99 |
| | Component Description: | United 179045958- |
| | Amount: | 001 v200312jgv1 \$907.24 |
| | Component Description: | United 178449319- |
| | | 001 v200204jgv1 |
| | Amount: | \$856.67 |
| | Component Description: | Lewis 50161 |
| | Amount: | v200226jgv1 \$5,457.76 |
| | | |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Component Description: | Priest 000155 |
| net of any salvage value) | | v190823jgv1 |
| | Amount: | \$14,410.00 |
| | Component Description: | Priest 000146 |
| | Amount: | v190508pmv1 \$14,410.00 |
| | Amount. | ψιτ,τιυ.υυ |
| Non-zoning permits | Information not provided. | |
| Simulcast FCC required spots and crawls | Component Description: | Litewire 11491 |
| | , | v200219jgv2 |
| | Amount: | \$6,247.00 |

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$3,882,126.45 | \$3,429,211.98 | \$1,186,151.94 |

| Reimbursem | entestiatus | Response |
|------------|--|----------|
| | 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 |

Section Question Response

Submission of Estimated Expenses Statements

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

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

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

03/12/2020

Section Question Response

Submission of Actual Cost Documentation Statements

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

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

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

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

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

03/12/2020

Attachments