



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **49439** | Service: **DTV** | Call **WNEO** | Channel: **29 (UHF)** |
ID: | Sign:
File **0000027699**
Number:
FRN: **0002940336** | Date **03/10**
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. org	Not-for- Profit

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
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Robert Gehman <i>ConsultingEngineer</i> <i>Kessler and Gehman</i> <i>Associates, Inc.</i>	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	bob@kesslerandgehman. com
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**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 and Type	Manufacturer	
	Model	CTT-U- DCXP-2H
	Year	2003
	Type	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

	Type	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 leasehold 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 re-tuning 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	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet

	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	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 leasehold 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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

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

Antennas

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

Primary Antenna

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 Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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

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?	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 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)	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.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	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
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 transmission line and antenna?	Yes
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**Primary
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 Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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)	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 assigned phase. Station will attempt to rent if renting is available at time of acquisition.
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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 Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary
Transmission Line

Existing Transmission 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	
	Type	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

Primary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	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 run
	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 **Other Transmission Line Expenses Not Listed**
Transmission Line

Name	Description
Sweep of existing main line	Sweep of existing main line
TLSCRs	TLSCRs

**Interim
Transmission Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	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 Line	Information not provided.

Tower Equipment And Rigging Costs

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

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 Structure Registration	Do you have a tower registration number?	Yes
	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 Services Costs**

Section	Question	Response
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 Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Engineering Services	Other Engineering Services

Other Expenses

Section	Question	Response
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	
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 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
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		\$720,270.92	

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
Transmitter Electrical	\$36,500.00	\$36,500.00	See attached /uploaded PDF file titled "Priest 000166 v200120jgv1. pdf"	\$18,250.00	N/A
Sub-total	\$2,146,950.00	\$1,877,300.92	N/A	\$720,270.92	N/A
Total for all systems	\$3,882,126.45	\$3,429,211.98	N/A	\$1,166,994.70	N/A

Components

Actual Information	
Description	File Name
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 inside RF system including switching	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Information not provided.

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

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	
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	<i>\$145,880.00</i>	\$145,880.00	N/A	\$131,292.00	N/A

Air Dryer	\$4,298.45	\$4,298.45	N/A	\$3,868.59	N/A
Primary Antenna TFU-31JTH /VP-R 04 (SP)	\$310,130.00	\$232,095.00		\$104,442.75	
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
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
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
Sub-total	\$495,448.45	\$406,898.45	N/A	\$261,765.84	N/A
Total for all systems	\$3,882,126.45	\$3,429,211.98	N/A	\$1,166,994.70	N/A

Components

Actual Information	
Description	File Name

<p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="703 98 1023 264">Component Description:</td><td data-bbox="1023 98 1426 264"> <p>ERI WNEO-37763 Int ant patt scatt 30 pct pmt 2 v191223jgv1</p> </td></tr> <tr> <td data-bbox="703 264 1023 421">Amount:</td><td data-bbox="1023 264 1426 421"> <p>\$1,440.00</p> </td></tr> <tr> <td data-bbox="703 421 1023 586">Component Description:</td><td data-bbox="1023 421 1426 586"> <p>ERI WNEO-37763-1 Int ant patt scatt 30 pct pmt 3 v191223jgv1</p> </td></tr> <tr> <td data-bbox="703 586 1023 752">Amount:</td><td data-bbox="1023 586 1426 752"> <p>\$1,440.00</p> </td></tr> <tr> <td data-bbox="703 752 1023 918">Component Description:</td><td data-bbox="1023 752 1426 918"> <p>ERI WNEO-002 Int ant patt scatt 30 pct pmt 1 v190814jgv1</p> </td></tr> <tr> <td data-bbox="703 918 1023 1021">Amount:</td><td data-bbox="1023 918 1426 1021"> <p>\$1,440.00</p> </td></tr> </table>	Component Description:	<p>ERI WNEO-37763 Int ant patt scatt 30 pct pmt 2 v191223jgv1</p>	Amount:	<p>\$1,440.00</p>	Component Description:	<p>ERI WNEO-37763-1 Int ant patt scatt 30 pct pmt 3 v191223jgv1</p>	Amount:	<p>\$1,440.00</p>	Component Description:	<p>ERI WNEO-002 Int ant patt scatt 30 pct pmt 1 v190814jgv1</p>	Amount:	<p>\$1,440.00</p>
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<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="703 1021 1023 1187">Component Description:</td><td data-bbox="1023 1021 1426 1187"> <p>ERI WNEO-37763 Int ant side mt bkts 30 pct pmt 2 v191223jgv1</p> </td></tr> <tr> <td data-bbox="703 1187 1023 1352">Amount:</td><td data-bbox="1023 1187 1426 1352"> <p>\$4,072.50</p> </td></tr> <tr> <td data-bbox="703 1352 1023 1518">Component Description:</td><td data-bbox="1023 1352 1426 1518"> <p>ERI WNEO-37763-1 Int ant side mt bkts 30 pct pmt 3 v191223jgv1</p> </td></tr> <tr> <td data-bbox="703 1518 1023 1684">Amount:</td><td data-bbox="1023 1518 1426 1684"> <p>\$4,072.50</p> </td></tr> <tr> <td data-bbox="703 1684 1023 1850">Component Description:</td><td data-bbox="1023 1684 1426 1850"> <p>ERI WNEO-002 Int ant side mt bkts 30 pct pmt 1 v190814jgv1</p> </td></tr> <tr> <td data-bbox="703 1850 1023 1946">Amount:</td><td data-bbox="1023 1850 1426 1946"> <p>\$4,072.50</p> </td></tr> </table>	Component Description:	<p>ERI WNEO-37763 Int ant side mt bkts 30 pct pmt 2 v191223jgv1</p>	Amount:	<p>\$4,072.50</p>	Component Description:	<p>ERI WNEO-37763-1 Int ant side mt bkts 30 pct pmt 3 v191223jgv1</p>	Amount:	<p>\$4,072.50</p>	Component Description:	<p>ERI WNEO-002 Int ant side mt bkts 30 pct pmt 1 v190814jgv1</p>	Amount:	<p>\$4,072.50</p>
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Component Description:	<p>ERI WNEO-002 Int ant side mt bkts 30 pct pmt 1 v190814jgv1</p>												
Amount:	<p>\$4,072.50</p>												

Air Dryer	<table> <tr> <td data-bbox="710 96 1114 331">Component Description:</td><td data-bbox="1114 96 1426 331">ERI WNEO-37763 Int line dryer 30 pct pmt 2 v191223jgv1</td></tr> <tr> <td data-bbox="710 331 1114 387">Amount:</td><td data-bbox="1114 331 1426 387">\$1,289.53</td></tr> <tr> <td data-bbox="710 465 1114 701">Component Description:</td><td data-bbox="1114 465 1426 701">ERI WNEO-37763- 1 Int line dryer 30 pct pmt 3 v191223jgv1</td></tr> <tr> <td data-bbox="710 701 1114 757">Amount:</td><td data-bbox="1114 701 1426 757">\$1,289.53</td></tr> <tr> <td data-bbox="710 835 1114 958">Component Description:</td><td data-bbox="1114 835 1426 958">ERI WNEO-002 Int line dryer 30 pct pmt 1 v190814jgv1</td></tr> <tr> <td data-bbox="710 958 1114 1014">Amount:</td><td data-bbox="1114 958 1426 1014">\$1,289.53</td></tr> </table>	Component Description:	ERI WNEO-37763 Int line dryer 30 pct pmt 2 v191223jgv1	Amount:	\$1,289.53	Component Description:	ERI WNEO-37763- 1 Int line dryer 30 pct pmt 3 v191223jgv1	Amount:	\$1,289.53	Component Description:	ERI WNEO-002 Int line dryer 30 pct pmt 1 v190814jgv1	Amount:	\$1,289.53
Component Description:	ERI WNEO-37763 Int line dryer 30 pct pmt 2 v191223jgv1												
Amount:	\$1,289.53												
Component Description:	ERI WNEO-37763- 1 Int line dryer 30 pct pmt 3 v191223jgv1												
Amount:	\$1,289.53												
Component Description:	ERI WNEO-002 Int line dryer 30 pct pmt 1 v190814jgv1												
Amount:	\$1,289.53												
Sweep test of existing antenna	<table> <tr> <td data-bbox="710 1025 1114 1149">Component Description:</td><td data-bbox="1114 1025 1426 1149">Die MAN01463 v200217jgv1</td></tr> <tr> <td data-bbox="710 1149 1114 1205">Amount:</td><td data-bbox="1114 1149 1426 1205">\$2,880.00</td></tr> </table>	Component Description:	Die MAN01463 v200217jgv1	Amount:	\$2,880.00								
Component Description:	Die MAN01463 v200217jgv1												
Amount:	\$2,880.00												
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<table> <tr> <td data-bbox="710 1279 1114 1402">Component Description:</td><td data-bbox="1114 1279 1426 1402">Die MAN01463 v200217jgv1</td></tr> <tr> <td data-bbox="710 1402 1114 1458">Amount:</td><td data-bbox="1114 1402 1426 1458">\$95,381.55</td></tr> </table>	Component Description:	Die MAN01463 v200217jgv1	Amount:	\$95,381.55								
Component Description:	Die MAN01463 v200217jgv1												
Amount:	\$95,381.55												
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	<table> <tr> <td data-bbox="710 1532 1114 1655">Component Description:</td><td data-bbox="1114 1532 1426 1655">Die MAN01463 v200217jgv1</td></tr> <tr> <td data-bbox="710 1655 1114 1711">Amount:</td><td data-bbox="1114 1655 1426 1711">\$6,181.20</td></tr> </table>	Component Description:	Die MAN01463 v200217jgv1	Amount:	\$6,181.20								
Component Description:	Die MAN01463 v200217jgv1												
Amount:	\$6,181.20												

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
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	<i>\$9,536.00</i>	\$9,536.00	See attached / uploaded PDF file titled "Die MAN01463 v200217jgv1.pdf"	\$4,291.20	N/A
Rigid Transmission Line - copper, 7 3 /16"	\$220,400.00	\$162,549.60	N/A	\$73,147.32	N/A
Sweep of existing main line	<i>\$3,995.00</i>	\$3,995.00	See attached / uploaded PDF file titled "Gates US0328140 Sweep v200129jgv1.pdf"	\$3,995.00	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	\$1,166,994.70	N/A

Components

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

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	\$657,800.00	\$625,000.00		\$0.00	
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
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	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	\$1,166,994.70	N/A

Components

Information not provided.

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	\$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/A
Additional Field Engineering Service, 14 Days	\$28,000.00	\$28,000.00	N/A	\$525.00	Additional Engineering Service

Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$0.00	Comprehensive coverage verification via field study, if needed WNEO a measured to be used as a basis for comparison with the transmission measurements. See the Consensus Engineering WNEO quote and for reference.
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 - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,173.50	Attorney section FCC Construction Permit Application Main f WN
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$3,000.00	Engineering section FCC Construction Permit Application Main f WNEC the Cor Engir WNEC quote a for ref
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$7,000.00	Engineering study f cha assign and ar develc WN

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	\$1,166,994.70	N

Components

Actual Information	
Description	File Name
Other Engineering Services	<p>Component Description: KGA 930-44 v191220jgv1</p> <p>Amount: \$75.00</p>

Additional Field Engineering Service, 14 Days	<div> Component Description: Additional Field Engineering Service WNEO Site Prep </div> <div> Amount: \$225.00 </div>
	<div> Component Description: Additional Field Engineering Service WNEO Site Prep </div> <div> Amount: \$300.00 </div>
	<div> Component Description: Credit Memo requested by FCC for WNEO </div> <div> Amount: (\$300.00) </div>
	<div> Component Description: WNEO - Additional Field Engineering Service - Budget meeting and RF Inventory </div> <div> Amount: \$300.00 </div>
Comprehensive coverage verification via field study, if needed	<div> Component Description: Comprehensive coverage verification via field study WNEO </div> <div> Amount: \$31,718.50 </div>
	<div> Component Description: Comprehensive Coverage Verification, Field Strength Measurements WNEO </div> <div> Amount: \$31,718.50 </div>

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	<table> <tr> <td>Component Description:</td><td>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</td></tr> <tr> <td>Amount:</td><td>\$134.00</td></tr> <tr> <td>Component Description:</td><td>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</td></tr> <tr> <td>Amount:</td><td>\$106.50</td></tr> <tr> <td>Component Description:</td><td>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</td></tr> <tr> <td>Amount:</td><td>\$933.00</td></tr> </table>	Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WNEO	Amount:	\$134.00	Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WNEO	Amount:	\$106.50	Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WNEO	Amount:	\$933.00
Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WNEO												
Amount:	\$134.00												
Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WNEO												
Amount:	\$106.50												
Component Description:	Attorney section of Form FCC Construction Permit Application Main Facility WNEO												
Amount:	\$933.00												
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	<div> <div>Component Description:</div> <div>Engineering section of Form FCC Construction Permit Application Main Facility WNEO. See KGA Quote attached.</div> </div> <div> <div>Amount:</div> <div>\$3,000.00</div> </div>
Perform engineering study for new channel assignment and antenna development	<div> <div>Component Description:</div> <div>Engineering study for new channel assignment and antenna development WNEO</div> </div> <div> <div>Amount:</div> <div>\$7,000.00</div> </div>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Prepare and or review reimbursement form	<table> <tr> <td data-bbox="703 174 1011 210">Component Description:</td><td data-bbox="1145 174 1362 324"> Prepare or Review FCC Form 399 for Reimbursement WNEO </td></tr> <tr> <td data-bbox="703 338 813 367">Amount:</td><td data-bbox="1145 338 1262 367">\$2,500.00</td></tr> <tr> <td data-bbox="703 477 1011 512">Component Description:</td><td data-bbox="1145 477 1294 546"> KGA 930-70 v191220jgv1 </td></tr> <tr> <td data-bbox="703 560 813 589">Amount:</td><td data-bbox="1145 560 1262 589">\$1,925.00</td></tr> <tr> <td data-bbox="703 698 1011 734">Component Description:</td><td data-bbox="1145 698 1362 882"> Prepare or Review FCC Form 399 for Reimbursement WNEO Attorney Review </td></tr> <tr> <td data-bbox="703 896 813 925">Amount:</td><td data-bbox="1145 896 1241 925">\$392.00</td></tr> </table>	Component Description:	Prepare or Review FCC Form 399 for Reimbursement WNEO	Amount:	\$2,500.00	Component Description:	KGA 930-70 v191220jgv1	Amount:	\$1,925.00	Component Description:	Prepare or Review FCC Form 399 for Reimbursement WNEO Attorney Review	Amount:	\$392.00
Component Description:	Prepare or Review FCC Form 399 for Reimbursement WNEO												
Amount:	\$2,500.00												
Component Description:	KGA 930-70 v191220jgv1												
Amount:	\$1,925.00												
Component Description:	Prepare or Review FCC Form 399 for Reimbursement WNEO Attorney Review												
Amount:	\$392.00												
Project management of the transition	Information not provided.												

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$101,617.00	\$101,067.00		\$41,605.42	
Simulcast FCC required spots and crawls	<i>\$6,247.00</i>	\$6,247.00	See uploaded / attached PDF file titled "Litewire 11491 v200124jgv1.pdf"	\$6,247.00	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$6,538.42	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$28,820.00</i>	\$28,820.00	See attached Quote and Invoices by Priest Construction	\$28,820.00	N/A
Non-zoning permits	<i>\$3,000.00</i>	\$3,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Sub-total	\$101,617.00	\$101,067.00	N/A	\$41,605.42	N/A
Total for all systems	\$3,882,126.45	\$3,429,211.98	N/A	\$1,166,994.70	N/A

Components

Actual Information	
Description	File Name
Simulcast FCC required spots and crawls	Component Description: Litewire 11491 v200219jgv2 Amount: \$6,247.00
MVPD Notification of Channel Change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Component Description: Harbor Freight 00041J v200204jgv1 Amount: \$223.99 Component Description: United 178449319-001 v200204jgv1 Amount: \$856.67 Component Description: Lewis 50161 v200226jgv1 Amount: \$5,457.76

Disposal Costs (for equipment and other waste, net of any salvage value)	<div> <div> Component Description: Amount: </div> <div> Priest 000155 v190823jgv1 \$14,410.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Priest 000146 v190508pmv1 \$14,410.00 </div> </div>
Non-zoning permits	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$3,882,126.45	\$3,429,211.98
			\$1,166,994.70

Reimbursement Status	Question	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

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"> 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.

<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>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>03/10/2020</p>

Attachments