



(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 **05/20**
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 Legal Services	Other Legal 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	
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	\$3,891,951.75	\$3,439,037.28	N/A	\$1,590,263.54	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.

Transmitter 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 US0334211
		Prim TX Bal Due
		v200128jgv1
	Amount:	\$219,688.14
	Component Description:	Gates
		JW3004686V.1
		Prim TX 1-3rd pmt
		1 v191010jgv4
	Amount:	\$241,166.39
	Component Description:	Gates
		JW3004686V.2
		Prim TX 1-3rd pmt
		2 v191225jgv1
	Amount:	\$241,166.39
	Component Description:	Amazon 112-
		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		\$174,803.43	
Air Dryer	<i>\$4,298.45</i>	\$4,298.45	N/A	\$4,298.43	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	\$4,800.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$13,575.00	N/A	\$13,575.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	\$6,250.00	N/A

UHF - High Power, Side Mount, basic slot antenna, 500 kW input, horizontally polarized	\$145,880.00	\$145,880.00	N/A	\$145,880.00	N/A
Primary Antenna TFU-31JTH /VP-R 04 (SP)	\$310,130.00	\$232,095.00		\$208,885.50	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See quote attached; item 4. to sweep new primary line and antenna.	\$5,760.00	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	\$190,763.10	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$13,736.00	N/A	\$12,362.40	N/A
Sub-total	\$495,448.45	\$406,898.45	N/A	\$383,688.93	N/A

Total for all systems	\$3,891,951.75	\$3,439,037.28	N/A	\$1,590,263.54	N/A
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Components

Actual Information Description	File Name
Air Dryer	<div> <div> Component Description: ERI WNEO-37763 Int line dryer 30 pct pmt 2 v191223jgv1 </div> <div> Amount: \$1,289.53 </div> </div> <div> <div> Component Description: ERI WNEO-37763-1 Int line dryer 30 pct pmt 3 v191223jgv1 </div> <div> Amount: \$1,289.53 </div> </div> <div> <div> Component Description: ERI WNEO-002 Int line dryer 30 pct pmt 1 v190814jgv1 </div> <div> Amount: \$1,289.53 </div> </div> <div> <div> Component Description: ERI WNEO-55107 v200506jgv1 </div> <div> Amount: \$429.84 </div> </div>

Pattern scatter analysis for
side mount high/med power
antennas (if not included in
antenna base cost)

Component Description:

ERI WNEO-37763
Int ant patt scatt
30 pct pmt 2
v191223jgv1

Amount:

\$1,440.00

Component Description:

ERI WNEO-37763-
1 Int ant patt scatt
30 pct pmt 3
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-55107
v200506jgv1

Amount:

\$480.00

Side mount brackets for
high power antennas (if not
included in antenna base
cost)

Component Description:

ERI WNEO-37763
Int ant side mt
bkts 30 pct pmt 2
v191223jgv1

Amount:

\$4,072.50

Component Description:

ERI WNEO-002
Int ant side mt
bkts 30 pct pmt 1
v190814jgv1

Amount:

\$4,072.50

Component Description:

ERI WNEO-55107
v200506jgv1

Amount:

\$1,357.50

Component Description:

ERI WNEO-37763-
1 Int ant side mt
bkts 30 pct pmt 3
v191223jgv1

Amount:

\$4,072.50

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-55107
v200506jgv1
Amount: \$625.00

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: Amount:	ERI WNEO-37763 Int ant 30 pct pmt 2 v191223jgv1 \$43,764.00
	Component Description: Amount:	ERI WNEO-37763- 1 Int ant 30 pct pmt 3 v191223jgv1 \$43,764.00
	Component Description: Amount:	ERI WNEO-002 Int ant 30 pct pmt 1 v190814jgv1 \$43,764.00
	Component Description: Amount:	ERI WNEO-55107 v200506jgv1 \$14,588.00
Sweep test of existing antenna	Component Description: Amount:	Die MAN01463 v200217jgv1 \$2,880.00
	Component Description: Amount:	Die MAN01601 v200415jgv1 \$2,880.00
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Die MAN01463 v200217jgv1 \$95,381.55
	Component Description: Amount:	Die MAN01601 v200415jgv1 \$95,381.55

Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Component Description:		Die MAN01463
			v200217jgv1
	Amount:		\$6,181.20
	Component Description:		Die MAN01601
			v200415jgv1
	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		\$50,365.00	
Flexible Air Transmission Line - dielectric, 5"	\$86,100.00	\$50,365.01	N/A	\$50,365.00	N/A
Primary Transmission Line	\$233,931.00	\$176,080.60		\$158,803.64	
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
TLSCRs	<i>\$9,536.00</i>	\$9,536.00	See attached / uploaded PDF file titled "Die MAN01463 v200217jgv1.pdf"	\$8,582.40	N/A
Rigid Transmission Line - copper, 7 3/16"	\$220,400.00	\$162,549.60	N/A	\$146,226.24	N/A
Sub-total	\$320,031.00	\$226,445.61	N/A	\$209,168.64	N/A
Total for all systems	\$3,891,951.75	\$3,439,037.28	N/A	\$1,590,263.54	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
	Component Description: ERI WNEO-55107 v200506jgv1 Amount: \$5,036.50
Sweep of existing main line	Component Description: Gates US0328140 Sweep v200213jgv2 Amount: \$3,995.00

TLSCRs	<div> <div> Component Description: Amount: </div> <div> Die MAN01463 v200217jgv1 \$4,291.20 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die MAN01601 v200415jgv1 \$4,291.20 </div> </div>
Rigid Transmission Line - copper, 7 3/16"	<div> <div> Component Description: Amount: </div> <div> Die MAN01463 v200217jgv1 \$73,147.32 </div> </div> <div> <div> Component Description: Amount: </div> <div> Die MAN01601 v200415jgv1 \$73,078.92 </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	\$657,800.00	\$625,000.00		\$179,192.65	
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	\$179,192.65	N/A
Sub-total	\$657,800.00	\$625,000.00	N/A	\$179,192.65	N/A
Total for all systems	\$3,891,951.75	\$3,439,037.28	N/A	\$1,590,263.54	N/A

Components

Actual Information	
Description	File Name
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.

Major tower reinforcement /modifications	Information not provided.	
Tall Tower (greater than 500')	Component Description: Amount:	Warmus 18140 v200421v1 \$179,192.65

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	\$170,105.30	\$202,325.30		\$30,565.80	
Other Legal Services	\$9,825.30	\$9,825.30	Other Legal Services related to the DTV Repack	\$9,825.30	N/A
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 WNEC quote a for ref
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
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$7,000.00	Engineering study for channel assignment and antenna development WNEC

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,173.50	Atto section FC Consti Per Appli Main f WN
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	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.	\$8,817.00	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	Engin section FC Consti Per Appli Main f WNEC the Cor Engir WNEC quote a for refi
Project management of the transition	\$3,160.00	\$29,250.00	N/A	\$150.00	N
Sub-total	\$170,105.30	\$202,325.30	N/A	\$30,565.80	N
Total for all systems	\$3,891,951.75	\$3,439,037.28	N/A	\$1,590,263.54	N

Components

Actual Information	
Description	File Name
Other Legal Services	
	Component Description: GMP 32193 v200518jgv1
	Amount: \$1,563.50
	Component Description: GMP 32356 v200518jgv1
	Amount: \$408.00

Component Description:	GMP 32002 v200520pmv1
Amount:	\$723.00

Component Description:	GMP 29621 v200520pmv1
Amount:	\$2,775.80

Component Description:	GMP 30644 v200520pmv1
Amount:	\$101.00

Component Description:	GMP 30466 v200520pmv1
Amount:	\$454.50

Component Description:	GMP 30298 v200520pmv1
Amount:	\$50.50

Component Description:	GMP 29976 v200520pmv1
Amount:	\$392.50

Component Description:	GMP 29793 v200520pmv1
Amount:	\$50.50

Component Description:	GMP 29488 v200520pmv1
Amount:	\$2,498.00

Component Description:	GMP 28670 v200520pmv1
Amount:	\$505.00

	Component Description: GMP 28560 v200520pmv1 Amount: \$303.00
Other Engineering Services	Component Description: KGA 930-44 v191220jgv1 Amount: \$75.00
Additional Field Engineering Service, 14 Days	Component Description: Additional Field Engineering Service WNEO Site Prep Amount: \$300.00 Component Description: WNEO - Additional Field Engineering Service - Budget meeting and RF Inventory Amount: \$300.00 Component Description: Additional Field Engineering Service WNEO Site Prep Amount: \$225.00 Component Description: Credit Memo requested by FCC for WNEO Amount: (\$300.00)

Comprehensive coverage verification via field study, if needed	<div> <div> Component Description: </div> <div> Comprehensive coverage verification via field study WNEO </div> </div> <div> Amount: </div> <div> \$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.
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> Amount: </div> <div> \$7,000.00 </div>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="687 87 1086 470"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 87 1428 470"> <p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$106.50</p> </td></tr> <tr> <td data-bbox="687 470 1086 853"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 470 1428 853"> <p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$933.00</p> </td></tr> <tr> <td data-bbox="687 853 1086 1292"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 853 1428 1292"> <p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$134.00</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$106.50</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$933.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$134.00</p>
<p>Component Description:</p> <p>Amount:</p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$106.50</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$933.00</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility WNEO</p> <p>\$134.00</p>						
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>						

Prepare and or review reimbursement form	<table> <tr> <td data-bbox="697 100 1114 369"> Component Description: </td><td data-bbox="1114 100 1428 369"> Prepare or Review FCC Form 399 for Reimbursement WNEO Attorney Review </td></tr> <tr> <td data-bbox="697 369 1114 436"> Amount: </td><td data-bbox="1114 369 1428 436"> \$392.00 </td></tr> <tr> <td data-bbox="697 504 1114 593"> Component Description: </td><td data-bbox="1114 504 1428 593"> KGA 980-89 v200518jgv1 </td></tr> <tr> <td data-bbox="697 593 1114 660"> Amount: </td><td data-bbox="1114 593 1428 660"> \$1,375.00 </td></tr> <tr> <td data-bbox="697 728 1114 817"> Component Description: </td><td data-bbox="1114 728 1428 817"> KGA 930-70 v191220jgv1 </td></tr> <tr> <td data-bbox="697 817 1114 884"> Amount: </td><td data-bbox="1114 817 1428 884"> \$1,925.00 </td></tr> <tr> <td data-bbox="697 952 1114 1041"> Component Description: </td><td data-bbox="1114 952 1428 1041"> KGA 930-76 v200518jgv1 </td></tr> <tr> <td data-bbox="697 1041 1114 1108"> Amount: </td><td data-bbox="1114 1041 1428 1108"> \$450.00 </td></tr> <tr> <td data-bbox="697 1176 1114 1265"> Component Description: </td><td data-bbox="1114 1176 1428 1265"> KGA 980-96 v200518jgv1 </td></tr> <tr> <td data-bbox="697 1265 1114 1332"> Amount: </td><td data-bbox="1114 1265 1428 1332"> \$1,675.00 </td></tr> <tr> <td data-bbox="697 1400 1114 1489"> Component Description: </td><td data-bbox="1114 1400 1428 1489"> KGA 930-86 v200518jgv1 </td></tr> <tr> <td data-bbox="697 1489 1114 1556"> Amount: </td><td data-bbox="1114 1489 1428 1556"> \$500.00 </td></tr> <tr> <td data-bbox="697 1624 1114 1758"> Component Description: </td><td data-bbox="1114 1624 1428 1758"> Prepare or Review FCC Form 399 for Reimbursement WNEO </td></tr> <tr> <td data-bbox="697 1758 1114 1854"> Amount: </td><td data-bbox="1114 1758 1428 1854"> \$2,500.00 </td></tr> </table>	Component Description:	Prepare or Review FCC Form 399 for Reimbursement WNEO Attorney Review	Amount:	\$392.00	Component Description:	KGA 980-89 v200518jgv1	Amount:	\$1,375.00	Component Description:	KGA 930-70 v191220jgv1	Amount:	\$1,925.00	Component Description:	KGA 930-76 v200518jgv1	Amount:	\$450.00	Component Description:	KGA 980-96 v200518jgv1	Amount:	\$1,675.00	Component Description:	KGA 930-86 v200518jgv1	Amount:	\$500.00	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																												
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Component Description:	KGA 980-96 v200518jgv1																												
Amount:	\$1,675.00																												
Component Description:	KGA 930-86 v200518jgv1																												
Amount:	\$500.00																												
Component Description:	Prepare or Review FCC Form 399 for Reimbursement WNEO																												
Amount:	\$2,500.00																												
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.																												

<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p>Component Description:</p> <p>Engineering section of Form FCC Construction Permit Application Main Facility WNEO. See KGA Quote attached.</p> <p>Amount:</p> <p>\$3,000.00</p>
<p>Project management of the transition</p>	<p>Component Description:</p> <p>KGA 980-93 v200518jgv1</p> <p>Amount:</p> <p>\$150.00</p>

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		\$49,126.60	
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
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	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	\$14,059.60	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

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	\$49,126.60	N/A
Total for all systems	\$3,891,951.75	\$3,439,037.28	N/A	\$1,590,263.54	N/A

Components

Actual Information	
Description	File Name
Simulcast FCC required spots and crawls	<p>Component Description: Litewire 11491 v200219jgv2</p> <p>Amount: \$6,247.00</p>
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.

Equipment Delivery and Handling Charges	Component Description: Harbor Freight 00041J v200204jgv1 Amount: \$223.99
	Component Description: United 179045958-001 v200312jgv1 Amount: \$907.24
	Component Description: United 178449319-001 v200204jgv1 Amount: \$856.67
	Component Description: ERI WNEO-55107 v200506jgv1 Amount: \$6,613.94
	Component Description: Lewis 50161 v200226jgv1 Amount: \$5,457.76
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Priest 000155 v190823jgv1 Amount: \$14,410.00
	Component Description: Priest 000146 v190508pmv1 Amount: \$14,410.00
Non-zoning permits	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	\$3,891,951.75	\$3,439,037.28	\$1,590,263.54

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"> 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>05/20/2020</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"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. 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.

<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>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>05/20/2020</p>

Attachments