

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

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

0000027699

Number:

File

FRN: 0002940336 Date 05/27

> Submitted: /2020

Applicant Information

Preparer Contact

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

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Name and Information

Applicant Address **Phone Email**

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
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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
	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	150 kVA
	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 Manufacturer and Type	Class	Full Power
	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	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.

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	Manufacturer	
Line Manufacturer and Type	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	Interim N/A Purchase New Flexible Air 5 inches N/A 1 820 feet per run
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	
	Justification for New Transmission Line	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.

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	Type of change	Modify Existing
Description	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 N/A N/A No
	One or more FM, AM or TV radio broadcaster(s)	N/A
Others Typ	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	Yes 1021036
***************************************	Latitude (NAD83)	40° 54' 23.2" N-
(North American Datum of 1983))	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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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

Services Costs	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
Interim Transmitter TBD	\$1,163,450.00	\$1,105,500.00		\$0.00	
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
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
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" N/A Sub-total \$2,146,950.00 \$1,877,300.92 N/A \$738,520.92 N/A Total for all systems \$3,892,251.75 \$3,439,337.28 N/A \$1,590,751.04 N/A						
Liquid uploaded PDF Cooled file titled Solid State Transmitter 21 - 31 kW Prim TX Bal Due v200128jgv1. pdf" Sub-total \$2,146,950.00 \$1,877,300.92 N/A \$738,520.92 N/A Total for all \$3,892,251.75 \$3,439,337.28 N/A \$1,590,751.04 N/A		\$36,500.00	\$36,500.00	/uploaded PDF file titled "Priest 000166 v200120jgv1.	\$36,500.00	N/A
Total for all \$3,892,251.75 \$3,439,337.28 N/A \$1,590,751.04 N/A	Liquid Cooled Solid State Transmitter	\$947,000.00	\$735,300.92	uploaded PDF file titled "Gates US0334211 Prim TX Bal Due v200128jgv1.	\$702,020.92	N/A
	Sub-total	\$2,146,950.00	\$1,877,300.92	N/A	\$738,520.92	N/A
		\$3,892,251.75	\$3,439,337.28	N/A	\$1,590,751.04	N/A

Components

Actual Information Description	File Name
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.
UHF inside RF system including switching	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	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
	Component Description.	JW3004686V.2
		Prim TX 1-3rd pmt
		2 v191225jgv1
	Amount:	\$241,166.39
	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		\$174,803.43	
Air Dryer	\$4,298.45	\$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, borizontally polarized						
Antenna TFU-31JTH //P-R 04 (SP) Sweep test of existing antenna **Sweep new primary line and antenna. UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Power, Side Mount, basic slot antenna, 500 kW input, horizontally	\$145,880.00	\$145,880.00	N/A	\$145,880.00	N/A
of existing antenna item 4. to sweep new primary line and antenna. UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Antenna TFU-31JTH /VP-R 04	\$310,130.00	\$232,095.00		\$208,885.50	
Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Elbow \$13,900.00 \$13,736.00 N/A \$12,362.40 N/A complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	of existing	\$6,730.00	\$6,400.00	attached; item 4. to sweep new primary line and	\$5,760.00	N/A
complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly	\$289,500.00	\$211,959.00	N/A	\$190,763.10	N/A
Sub-total \$495,448.45 \$406,898.45 N/A \$383,688.93 N/A	complex, single channel, at antenna input, per 7 3/16. feedline (if	\$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	\$3,892,251.75	\$3,439,337.28	N/A	\$1,590,751.04	N/A
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Components

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

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-002

Int ant patt scatt 30 pct pmt 1 v190814jgv1

Amount: \$1,440.00

Component Description: ERI WNEO-55107

v200506jgv1

Amount: \$480.00

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 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-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:

Component Description: ERI WNEO-55107

v200506jgv1

Amount: \$1,357.50

Sweep test of existing		
antenna	Component Description:	ERI WNEO-37763 Int ant sweep 30 pct pmt 2
	Amount:	v191223jgv1 \$1,875.00
	Component Description:	ERI WNEO-002 Int ant sweep 30 pct pmt 1
	Amount:	v190814jgv1 \$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	Component Description:	ERI WNEO-37763 Int ant 30 pct pmt
polarized		2 v191223jgv1
	Amount:	\$43,764.00
	Component Description:	ERI WNEO-37763-
		1 Int ant 30 pct pmt 3
	Amount:	v191223jgv1 \$43,764.00
	Component Description:	Int ant 30 pct pmt
	Amount:	1 v190814jgv1 \$43,764.00
	Component Description:	ERI WNEO-55107
		v200506jgv1
	Amount:	\$14,588.00
Sweep test of existing antenna		
amorina	Component Description:	Die MAN01463 v200217jgv1
	Amount:	\$2,880.00
	Component Description:	Die MAN01601
		v200415jgv1
	Amount:	\$2,880.00
UHF - High Power Top Mount (200-1000 kW), One	Common and Docarintian	Die MANO1462
station antenna, elliptically	Component Description:	Die MAN01463 v200217jgv1
or circularly polarized	Amount:	\$95,381.55
	Component Description:	Die MAN01601
		v200415jgv1
	Amount:	\$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

Transmission Line

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

December	Predetermined	Estimated	Estimated Cost	Astual Ossi	Actual Cost
Description Interim Transmission	\$86,100.00	\$50,365.01	Justification	\$50,365.00	Justification
Line					
Flexible Air Transmission Line - dielectric, 5"	\$86,100.00	\$50,365.01	N/A	\$50,365.00	N/A
Primary Transmission Line	\$234,231.00	\$176,380.60		\$159,103.64	
Sweep of existing main line	\$4,295.00	\$4,295.00	See attached / uploaded PDF file titled "Gates US0328140 Sweep v200129jgv1. pdf"	\$4,295.00	N/A
Rigid Transmission Line - copper, 7 3 /16"	\$220,400.00	\$162,549.60	N/A	\$146,226.24	N/A
TLSCRs	\$9,536.00	\$9,536.00	See attached / uploaded PDF file titled "Die MAN01463 v200217jgv1. pdf"	\$8,582.40	N/A
Sub-total	\$320,331.00	\$226,745.61	N/A	\$209,468.64	N/A
Total for all systems	\$3,892,251.75	\$3,439,337.28	N/A	\$1,590,751.04	N/A

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: Amount:	ERI WNEO-55107 v200506jgv1 \$5,036.50
Sweep of existing main line		
	Component Description:	Gates US0328140 Sweep v200213jgv2
	Amount:	\$3,995.00
	Component Description:	B Thompson 016 WR v200527pmv1
	Amount:	\$300.00

Rigid Transmission Line -		
copper, 7 3/16"	Component Description:	Die MAN01463
		v200217jgv1
	Amount:	\$73,147.32
	Component Description:	Die MAN01601
		v200415jgv1
	Amount:	\$73,078.92
LSCRs		
	Component Description:	Die MAN01463
		v200217jgv1
	Amount:	\$4,291.20
	Component Description:	Die MAN01601
		v200415jgv1
	Amount:	\$4,291.20

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 Primary Tower	Predetermined Cost Estimate \$657,800.00	Estimated Cost \$625,000.00	Estimated Cost Justification	Actual Cost \$179,380.15	Actual Cost Justification
TOWER	, ,	· ,		· ,	
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	\$179,380.15	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	\$179,380.15	N/A
Total for all systems	\$3,892,251.75	\$3,439,337.28	N/A	\$1,590,751.04	N/A

Actual Information	
Description	File Name

Tall Tower (greater than 500')	Component Description:	B Thompson 017 WR v200527pmv1
	Amount:	\$187.50
	Component Description:	Warmus 18140 v200421v1
	Amount:	\$179,192.65
Major tower reinforcement /modifications	Information not provided.	
Tower mapping for an undocumented/poorly documented tower and preparation of	Information not provided.	
documentation necessary for tower load study		

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	\$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
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					
bas					
comp					
with t					
tran					
measu					
Se					
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	\$2,630.00	\$2,500.00	N/A	N/A	N
issues w/ other stations and wireless					
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
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	\$3,892,251.75	\$3,439,337.28	N/A	\$1,590,751.04	N

Actual Information Description	File Name	
Other Legal Services		
	Component Description: Amount:	GMP 29488 v200520pmv1 \$2,498.00
	Component Description: Amount:	GMP 30298 v200520pmv1 \$50.50
	Amount	ψ50.50

Component Description: GMP 30644

v200520pmv1

Amount: \$101.00

Component Description: GMP 32002

v200520pmv1

Amount: \$723.00

Component Description: GMP 28560

v200520pmv1

Amount: \$303.00

Component Description: GMP 29621

v200520pmv1

Amount: \$2,775.80

Component Description: GMP 29793

v200520pmv1

Amount: \$50.50

Component Description: GMP 30466

v200520pmv1

Amount: \$454.50

Component Description: GMP 28670

v200520pmv1

Amount: \$505.00

Component Description: GMP 29976

v200520pmv1

Amount: \$392.50

Component Description: GMP 32193

v200518jgv1

Amount: \$1,563.50

	Component Description: Amount:	GMP 32356 v200518jgv1 \$408.00
Other Engineering Services	Component Description: Amount:	KGA 930-44 v191220jgv1 \$75.00
Additional Field Engineering Service, 14 Days	Component Description:	WNEO - Additional Field Engineering Service - Budget meeting and RF
	Amount:	Inventory \$300.00
	Component Description:	Credit Memo requested by FCC for WNEO
	Amount:	(\$300.00)
	Component Description:	Additional Field Engineering Service WNEO Site Prep
	Amount:	\$300.00
	Component Description:	Additional Field Engineering Service WNEO Site Prep
	Amount:	\$225.00

Comprehensive coverage verification via field study, if needed	Component Description:	Comprehensive coverage verification via field study WNEO
	Amount:	\$31,718.50
	Component Description:	Comprehensive Coverage Verification, Field Strength Measurements 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 Attorney section of **Component Description:** (main), Construction Form FCC Permit Application **Construction Permit** Application Main Facility WNEO Amount: \$933.00 **Component Description:** Attorney section of Form FCC Construction Permit Application Main Facility WNEO \$134.00 Amount: **Component Description:** Attorney section of Form FCC Construction Permit **Application Main** Facility WNEO \$106.50 Amount: Prepare request for Information not provided. **Special Temporary** Authorization Prepare engineering Information not provided. section of FCC Form 2100 (main), License to Cover Application Prepare engineering section of FCC Form 2100 **Component Description:** Engineering section (main), Construction of Form FCC Permit Application **Construction Permit** Application Main Facility WNEO. See KGA Quote attached. Amount: \$3,000.00

Perform engineering study for new channel assignment and antenna development	Component Description:	Engineering study for new channel assignment and antenna development WNEO
	Amount:	\$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: 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

Amount: \$392.00

Project management of the transition

Component Description: KGA 980-93

v200518jgv1

Amount: \$150.00

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
Other Expenses	\$101,617.00	\$101,067.00		\$49,126.60	
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
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
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
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	\$14,059.60	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

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	\$3,892,251.75	\$3,439,337.28	N/A	\$1,590,751.04	N/A

Actual Information Description	File Name	
Simulcast FCC required spots and crawls	Component Description: Amount:	Litewire 11491 v200219jgv2 \$6,247.00
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
	Amount:	v200204jgv1 \$223.99
	Component Description:	United 179045958- 001 v200312jgv1
	Amount:	\$907.24
	Component Description:	United 178449319-
	Amount:	001 v200204jgv1 \$856.67
	Component Description:	ERI WNEO-55107
	Amount:	v200506jgv1 \$6,613.94
	Component Description:	Lewis 50161
	Amount:	v200226jgv1 \$5,457.76
Disposal Costs (for		
equipment and other waste, net of any salvage value)	Component Description:	Priest 000146
not of any carrage value,	A	v190508pmv1
	Amount:	\$14,410.00
	Component Description:	Priest 000155
	Amount	v190823jgv1
	Amount:	\$14,410.00
Non-zoning permits	Information not provided.	
DTV Medical Facility	Information not provided.	

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,892,251.75	\$3,439,337.28	\$1,590,751.04

Reimbursem	enrestiatus	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

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

05/27/2020

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

05/27/2020

Attachments