

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID:	69328	Service: DTV	Call Sign:	WLED-TV	Channel: 23 (UHF)
File Number:	000002	7752			
FRN: 00	21895115	Date Submitted:	02/06 /2020		

Applicant Name, Type, and Contact Information

Information

Applicant	Address	Phone	Email	Applicant Type
NEW HAMPSHIRE PUBLIC BROADCASTING Doing Business As: NEW HAMPSHIRE PUBLIC BROADCASTING	Dawn DeAngelis 268 MAST ROAD DURHAM, NH 03824 United States	+1 (603) 868- 4304	ddeangelis@nhpbs. org	Not-for- Profit

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Preparer Contact Name and Information

Contact Information	Applicant	Address	Phone	Email
	Ryan C Wilhour ConsultingEngineer Kessler and Gehman Associates, Inc.	507 NW 60th ST STE D Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@kesslerandgehman. com

Broadcaster	Question	Response
Information and Transition Plan	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	Replace transmitter and antenna using existing transmission line. Acquire interim antenna and line for continued operation during line replacement 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

ransmitter	Section	Question	Response
	Existing Transmitter Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	Auxiliary
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is this transmitter currently shared with another station?	No
		Is this transmitter currently in operating condition?	Yes
	Existing Transmitter	Manufacturer	
	Manufacturer and Type	Model	NV7250
		Year	2001
		Туре	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power Capacity	4 kW

Add Transmitter Information

Auxiliary	New Transmitter Costs		
Transmitter	Section	Question	Response
	New Transmitter	Use	Auxiliary (Backup)
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Manufacturer	
		Model	MPTV-PRLX- U3
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	5 kW
		Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be re- tuned to the assigned channel. See attachment.

Auxiliary	Other Transmitter Costs	
Transmitter	Section	
	Electrical Service	Serv

Question	Response
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

Auxiliary Other Transmitter Cost Not Listed

Transmitter Information not provided.

Primary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
		Is this transmitter currently in operating condition?	Yes		
	Existing Transmitter	Manufacturer			
	Manufacturer and Type	Model	AT7105K0		
		Year	2011		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	5 kW		

Existing Transmitter Information

Primary	New Transmitter Costs			
Transmitter	Section	Question	Response	
	New Transmitter	Use	Primary (Main)	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Manufacturer		
		Model	MPTV-PRLX- U3	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	5.2 kW	
		Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be re- tuned to the assigned channel. See attachment.	

Primary	Other Transmitter Costs			
Transmitter	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?	Yes	
	Туре	Heating and Cooling	
	Size	5 tons	
	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	

Other Transmitter Cost Not Listed			
Name	Description		
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line		
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch		
	Name Additional Interior RF System		

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information			
Antenna	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)	108.0 kW	

Manufacturer	
Model	TFU- 28GTH-R O4 DC
Year	2001

Primary Antenna	Section	Question	Response
	New Antenna	Use	Primary (Main
	Description	Description of Use	N/A
		Change Type	Purchase Nev
		Is this a request for upgraded equipment?	No
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	No
		Will antenna be located on or in close proximity to an antenna farm?	No
	New Antenna	Class	Full Power
	Manufacturer and Type	es Mounting	Top 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)	77.3 kW
		Manufacturer	
		Model	ATW20H4- HTO10-23L

Primary Antenna Question Section Response **Combiner for Shared** Do you need a Combiner for a Shared No Antenna? Antenna Туре Number of channels supported N/A Frequencies of channels supported N/A Frequency N/A Do you need a combiner output splitter N/A /switcher for dual feed lines? Do you require the separate purchase of Yes **Elbow Complex** the Elbow Complex? Broadband or Single Channel? Single Channel

Other Antenna Costs

	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No

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

Primary
AntennaOther Antenna Cost Not ListedInformation not provided.

New Antenna DescriptionUseInterimDescription of UseNAChange TypePurchase New Antenna Is antenna shared?OwnerNAIs antenna shared?NOIs antenna directional?NOWill antenna be located on or in close proximity to an antenna farm?NoNew Antenna Manufacturer and TypeClassFull PowAntenna position in stackNot in StPolarizationEllipticalTypeSlotted CoaxialNumber of Stations SupportedN/AUmber of Stations SupportedN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/A	Interim	New Antenna Costs			
Description of Use N/A Change Type Purchase New Ownership Ownerd Owner N/A Is antenna shared? N/A Is antenna shared? N/A Is antenna blocated on or in close proximity to an antenna farm? N/A New Antenna Manufacturer and Type Class Full Pow Mounting Side Mou Antenna position in stack Not in State Polarization Elliptical Type Slotted Cowner Limit N/A Upper Limit N/A Design power capacity in use N/A	Antenna	Section	Question	Response	
Change Type Purchase Ownership Ownerd 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 Pow Mounting Side Mou Antenna position in stack Not in Stations Itype Slotted Cowner of Stations Supported N/A Number of Panels/Bays N/A Upper Limit N/A Owner Capacity in use N/A N/A N/A		New Antenna Description	Use	Interim	
New New Ownership 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 Manufacturer and Type Class Full Pow Mounting Side Mor Antenna position in stack Not in St Polarization Elliptical Type Slotted Coaxial Number of Stations Supported N/A Lower Limit N/A Upper Limit N/A Other Antenna Type N/A			Description of Use	N/A	
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 Pow Mounting Side Mou Antenna position in stack Not in St Polarization Elliptical Type Slotted Number of Stations Supported N/A Upper Limit N/A Design power capacity in use N/A Other Antenna Type N/A			Change Type	Purchase New	
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 Pow Manufacturer and Type Class Side Mod Antenna position in stack Not in Station Side Mod Polarization Stotted Coaxial Number of Stations Supported N/A N/A Lower Limit N/A N/A Design power capacity in use N/A N/A			Ownership	Owned	
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 Mour Antenna position in stack Not in State Polarization Elliptical Type Slotted Coaxial Number of Stations Supported N/A Lower Limit N/A Upper Limit N/A Other Antenna Type N/A			Owner	N/A	
Will antenna be located on or in close proximity to an antenna farm? No New Antenna Manufacturer and Type Class Full Power Mounting Side Mourd Antenna position in stack Not in State Polarization Elliptical Type Slotted coastad Number of Stations Supported N/A Lower Limit N/A Upper Limit N/A Other Antenna Type N/A			Is antenna shared?	No	
New Antenna Class Full Power Manufacturer and Type Mounting Side Mouting Antenna position in stack Not in Stational Not in Stational Polarization Type Slotted Coaxial Number of Stations Supported N/A Lower Limit N/A Design power capacity in use N/A Other Antenna Type N/A			Is antenna directional?	No	
Manufacturer and Type Mounting Side Mound Antenna position in stack Not in Stack Polarization Elliptical Type Slotted Number of Stations Supported N/A Lower Limit N/A Design power capacity in use N/A Other Antenna Type N/A				No	
MountingSide MoundAntenna position in stackNot in StationPolarizationEllipticalTypeSlotted CoaxialNumber of Stations SupportedN/ANumber of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AN/AN/A			Class	Full Power	
PolarizationEllipticalTypeSlotted CoaxialNumber of Stations SupportedN/ANumber of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/A			Mounting	Side Mount	
TypeSlotted CoaxialNumber of Stations SupportedN/ANumber of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/A			Antenna position in stack	Not in Stack	
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			Polarization	Elliptical	
Number of Panels/BaysN/ALower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/A			Туре		
Lower LimitN/AUpper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/A			Number of Stations Supported	N/A	
Upper LimitN/ADesign power capacity in useN/AOther Antenna TypeN/A			Number of Panels/Bays	N/A	
Design power capacity in use N/A Other Antenna Type N/A			Lower Limit	N/A	
Other Antenna Type N/A			Upper Limit	N/A	
			Design power capacity in use	N/A	
ERP: (Effective Radiated Power) 108.0 kW			Other Antenna Type	N/A	
			ERP: (Effective Radiated Power)	108.0 kW	
Manufacturer			Manufacturer		
			Model	i230ECW- 16-23/48	
Year 2019			Year	2019	

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

С Interim

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Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	4 1/16 inches
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	Other Antenna Cost Not Listed	
Antenna	Name	Description
	Freight	Freight

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Existing Transmission Line Primary Existing Transmission

ssion	section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		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	ERI
	Line Manufacturer and Type	Туре	Flexible Ai
		Diameter	4 inches
		Other Diameter	N/A
		Segment Length	N/A
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	430 feet per run

Primary Other Transmission Line Expenses Not Listed

Transmission	n Line	Description	
	Sweep Tests	Sweep tests to demonstrate performance on assigned channel	

New Transmission Line

Interim Transmission

Question	Response
Use	Interim
Description of Use	N/A
Change Type	Purchase New
Туре	Rigid
Diameter	3 1/8 inches
Segment Length	20'
Other Segment Length	
Number of parallel runs	1
Length	460 feet per run
	UseDescription of UseChange TypeTypeDiameterSegment LengthOther Segment LengthNumber of parallel runs

Justification for New Transmission Line	An interim
	transmission
	line is
	necessary
	for the
	interim
	antenna to
	keep station
	on the air
	during
	primary
	antenna
	replacemen
	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

Numo	becomption
Freight	Freight

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

Existing Tower

Primary	Existing Tower				
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?	Terrain Constrained		
		Is this tower currently shared with any other stations?	Yes		
		One or more FM, AM or TV radio broadcaster(s)	Yes		
		Others Types of Users	Yes		
		Is tower documented for structural analysis?	No		
		Is tower compliant with Rev G?	Yes		
	Existing Tower	Do you have a tower registration number?	Yes		
	Structure Registration	ASR Number	1034698		
	Coordinates (NAD83 (Latitude (NAD83)	44° 21' 10.9" N-		
	North American Datum of 1983))	Longitude (NAD83)	071° 44' 14.9" W-		
		Overall Structure Height	446.84 feet		
		Support Structure Height	399.93 feet		
		Ground Elevation Above Mean Sea Level (AMSL)	1988.82 feet		
			-		

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	New Hampshire Public Broadcasting
Date Constructed	11/14/2016

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
165997	WNYN-FM	FM
72212	WMTK	FM
173546	WEVQ	FM

Other Types of Users

Users

WLED microwave

WENH microwave

WNYN microwave

Primary Tower Modification Costs

Tower

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
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Primary Tower	Tower Rigging Costs			
	Section	Question	Response	
	Tower Rigging Costs	Complex Tower	Terrain constrained	
	Helicopter Services Required	Are helicopter services required?	No	

Other Tower Expenses Not Listed

Primary Tower

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	40
		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	6
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 trained in such services.

Outside Other Professional Services Expenses Not Listed

Professional	Services Costs	Description
	Other Legal Services	Legal services not specifically listed under Outside Professional Services
	Other Engineering Services	Engineering services not specifically listed under Outside Professional Services

Other	Section	Question	Response
Expenses	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	No
		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?	No
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses Not Listed

Expenses Information not provided.

Transmitters

Cost Information

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Primary Transmitter MPTV-PRLX- U3	\$519,259.00	\$468,459.00		\$222,384.19	
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 4.9 . 6.5 kW	\$273,500.00	\$226,150.00	N/A	\$209,203.92	N/A
Additional Interior RF System	\$140,000.00	\$140,000.00	N/A	N/A	N/A
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	\$32.70	N/A
Other HVAC Service Type: H Size:5 (Other)	\$11,809.00	\$11,809.00	N/A	\$11,809.00	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	\$1,338.57	N/A

Auxiliary Transmitter MPTV-PRLX- U3	\$273,500.00	\$225,615.00		\$225,615.00	
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$225,615.00	N/A	\$225,615.00	N/A
Sub-total	\$792,759.00	\$694,074.00	N/A	\$447,999.19	N/A
Total for all systems	\$2,404,736.82	\$2,311,523.76	N/A	\$1,055,909.29	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 4.9 . 6.5 kW	Component Description:	New primary transmitter Comark MPTV-PRLX-U3 Liquid Cooled
	Amount:	\$104,550.00
	Component Description:	HD 8539 00002 61149 v191021jgv1
	Amount:	\$103.92
	Component Description:	Comark S10358-2 v191108jgv1
	Amount:	\$104,550.00
Additional Interior RF System	Information not provided.	

Standby Exciter and Switch	Component Description: Amount:	ESS 1000001082 v191031jgv1 \$32.70
Other HVAC Service Type: H Size:5 (Other)	Component Description: Amount:	Emcor 171-000047 v190806jgv1 \$5,904.50
	Component Description: Amount:	Emcor 171-000048 v191210jgv1 \$5,904.50
3" Rigid Conduit and Wiring (Cost per foot)	Component Description:	HD 8539 00002 76667 v190624pmv1
	Amount: Component Description:	\$11.81 HD 8539 00002 61636
	Amount: Component Description:	v190624pmv1 \$28.25 HD 8539 00002
	Amount:	12647 v190624pmv1 \$92.94
	Component Description:	HD 8539 00057 06940 v190624pmv1
	Amount: Component Description:	\$32.15 Amazon 114-
	Amount:	2755163-1500267 v190625pmv1 \$8.39

Component Description: Amount:	HD 8539 00056 07692 v190624pmv1 \$16.29
Component Description: Amount:	Needham S5081017.002 v190620jgv1 \$145.49
Component Description: Amount:	Needham S5116592.002 v190620jgv1 \$28.30
Component Description: Amount:	Needham S5117024.002 v190620jgv1 \$81.36
Component Description: Amount:	HD 8539 00002 59291 v190624pmv1 \$165.96
Component Description: Amount:	HD 8539 00002 73490 v190624pmv1 \$79.96
Component Description: Amount:	HD 8539 00057 98061 v190624pmv1 \$51.45

Component Description: Amount:	Needham S5070398.002 v190620jgv1 \$126.54
Component Description: Amount:	HD 3403 00057 27367 v190624pmv1 \$47.97
Component Description: Amount:	HD 8539 00002 80040 v190624pmv1 \$6.23
Component Description: Amount:	HD 8539 00002 90437 v190624pmv1 \$23.58
Component Description: Amount:	HD 8539 00002 67435 v190624pmv1 \$72.70
Component Description: Amount:	HD 8539 00002 26316 v190624pmv1 \$41.68
Component Description: Amount:	Candia 5 v190625pmv1 \$34.95
Component Description: Amount:	Needham S5115697.002 v190620jgv1 \$72.85

	Component Description:	Needham S5062957.002 v190620jgv1
	Amount:	\$77.92
	Component Description:	Needham S5119902.002 v190620jgv1
	Amount:	\$91.80
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	Component Description:	WLED, AUX SYSTEM (transmitter MPTV- PRLX-) U3 D23
	Amount:	\$112,807.50
	Component Description:	Comark S10359-3 v191108jgv1
	Amount:	\$11,280.75
	Component Description:	Comark S10359-2 v190624jgv1
	Amount:	\$101,526.75

Antennas

Cost Information

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 i230ECW- 16-23/48	\$152,493.53	\$209,004.53		\$172,754.53	
Freight	\$4,683.53	\$4,683.53	N/A	\$4,683.53	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,100.00	N/A	N/A	N/A

				•	
UHF - Lower Power Side Mount, One Station antenna . medium power (50- 200 kW), elliptically or circularly polarized	\$103,100.00	\$161,821.00	See uploaded ERI Proposal 20190125- 436 Rev B	\$161,821.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,250.00	N/A
Primary Antenna ATW20H4- HTO10-23L	\$263,300.00	\$250,500.00		\$57,300.00	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,100.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna,	\$247,000.00	\$235,000.00	N/A	\$57,300.00	N/A
horizontally polarized					

Total for	\$2,404,736.82	\$2,311,523.76	N/A	\$1,055,909.29	N/A
all					
systems					

Actual Information Description	File Name	
Freight	Component Description: Amount:	ERI WLED-5000 v190709jgv1 \$4,683.53
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.	
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	Component Description: Amount:	ERI WLED-600 v190701jgv1 \$76,010.50
	Component Description: Amount:	ERI WLED-5000 v190709jgv1 \$4,900.00
	Component Description:	ERI inv #WLED-500 Interim antenna pmt 1 UL20190425jgv1
	Amount:	\$80,910.50

Sweep test of existing antenna	Component Description: Amount:	ERI WLED-5000 v190709jgv1 \$3,125.00
	Component Description: Amount:	ERI inv #WLED-500 Interim antenna sweep pmt 1 UL20190425jgv1 \$3,125.00
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	Component Description:	ERI inv #WLED- 500A Primary Ant pmt 1
	Amount:	UL20190425jgv1 \$28,650.00
	Component Description:	ERI WLED-500B v190711jgv1
	Amount:	\$28,650.00

Transmission Line

Cost Information

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	\$49,004.29	\$47,145.23		\$47,145.23	
Freight	\$1,164.29	\$1,164.29	See attached /uploaded PDF file titled "ERI WLED- 54515 v191119jgv1. pdf"	\$1,164.29	N/A
Rigid Transmission Line - copper, 3 1/8"	\$47,840.00	\$45,980.94	See attached /uploaded PDF file titled "ERI WLED- 54515 v191119jgv1. pdf"	\$45,980.94	N/A
Primary Transmission Line	\$6,400.00	\$6,400.00		\$0.00	
Sweep Tests	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$55,404.29	\$53,545.23	N/A	\$47,145.23	N/A
Total for all systems	\$2,404,736.82	\$2,311,523.76	N/A	\$1,055,909.29	N/A

Actual Information	
Description	File Name

Freight	Component Description: Amount:	ERI WLED-54515 v191119jgv1 \$1,164.29
Rigid Transmission Line - copper, 3 1/8"	Component Description: Amount:	ERI WLED-54515 v191119jgv1 \$1,608.20
	Component Description: Amount:	ERI WLED-5000 v190709jgv1 \$22,186.37
	Component Description: Amount:	ERI inv #WLED-500 Interim line pmt 1 UL20190425jgv1 \$22,186.37
Sweep Tests	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

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 GTOWER	\$868,300.00	\$825,000.00		\$294,856.60	
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$165,624.60	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	\$4,000.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	\$125,232.00	N/A
Sub-total	\$868,300.00	\$825,000.00	N/A	\$294,856.60	N/A
Total for all systems	\$2,404,736.82	\$2,311,523.76	N/A	\$1,055,909.29	N/A

Actual Information	
Description	File Name

Major tower reinforcement /modifications		
	Component Description:	ERI WLED-54517- 1 v191119jgv1
	Amount:	\$25,536.10
	Component Description:	ERI WLED-54517
		v190711jgv1
	Amount:	\$60,808.40
	Component Description:	Dodge 37339
		v191121jgv1
	Amount:	\$3,269.60
	Component Description:	ERI WLED-700
		v190812jgv1
	Amount:	\$76,010.50
ower mapping for an		
undocumented/poorly documented tower and	Component Description:	Structural Analysis
preparation of		of existing tower
locumentation necessary or tower load study	Amount:	\$1,500.00
	Component Description:	All Pts 24845
	Amount:	v190930jgv1
	Amount:	\$1,300.00
	Component Description:	Structural Re-
		analysis of
	Amounti	existing tower
	Amount:	\$1,200.00
Complex Tower (includes, or example, those with		
candelabras and/or stacked	Component Description:	ERI WLED-8000
antennas)	Amounti	v200205jgv1
	Amount:	\$125,232.00

Outside Professional Services

Cost Information

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	\$198,930.00	\$206,400.00		\$31,318.74	
Project management of the transition	\$6,320.00	\$6,160.00	N/A	\$2,664.99	Checks for th reimburseme bank accou
Other Engineering Services	\$46,490.00	\$46,490.00	N/A	\$3,502.00	N/A
Other Legal Services	\$15,000.00	\$15,000.00	N/A	\$1,878.00	N/A
Additional Field Engineering Service, 6 Days	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Attorney Fees - 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	\$119.25	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$725.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$4,500.00	See attached KGA invoices 211-27 and 211-88.	\$4,500.00	FCC CP application

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,250.00	FCC RF allocation study for ne channel assignmen and antenn developme
Prepare and or review reimbursement form	\$2,630.00	\$15,000.00	The Estimated Cost figure includes preparation and submission of Actual Cost invoices to date as well as an estimate of those anticipated over the remaining Repack.	\$14,679.50	Prep of original FC0 Form 399. T station requested specific hel from their attorneys pri to having the engineers prepare the Form 399
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$198,930.00	\$206,400.00	N/A	\$31,318.74	N/A
Total for all systems	\$2,404,736.82	\$2,311,523.76	N/A	\$1,055,909.29	N/A

Actual Information Description	File Name		
Project management of the transition			

Component Description: Amount:	KGA inv #211-34 Actual Cost UL20190228jgv2 \$300.00
Component Description: Amount:	KGA 211-105 v200127jgv1 \$150.00
Component Description: Amount:	KGA 211-84 v190711jgv1 \$150.00
Component Description: Amount:	KGA 211-116 v200206jgv1 \$150.00
Component Description: Amount:	Proj Mgmt 399 Actual Costs Invoice uploads for WLED \$300.00
Component Description: Amount:	Prepare and submit Sched 387 \$225.00
Component Description: Amount:	KGA inv #211-46 Form 387 2018 Q1 UL20190228jgv2 \$225.00
Component Description: Amount:	Prepare and submit Sched 387 \$225.00

Component Description: Amount:	KGA inv #211-41 Actual Cost UL20190228jgv2 \$375.00
Component Description: Amount:	KGA inv #211-39 Form 387 2017 Q4 UL20190228jgv2 \$225.00
Component Description:	Prepare and submit Sched 399 actual charges
Amount:	\$375.00
Component Description:	One half the cost for checks associated with the reimbursement
Amount:	bank account. \$24.99
Component Description: Amount:	KGA inv #211-70 Form 387 2019 Q1 UL20190424jgv1 \$150.00
Component Description:	Proj Mgmt 3Q2017
Amount:	report for WLED \$300.00
Component Description: Amount:	Prep and submit Form 387 3Q18 \$150.00

Component Description: Amount:	KGA inv #211-42 Other Eng Srvcs UL20190228jgv2 \$315.00
Component Description: Amount:	KGA inv #211-32 Form 387 2017 Q3 UL20190228jgv2 \$300.00
Component Description: Amount:	Preliminary design of RF transmission facilities for planning \$315.00
Component Description: Amount:	KGA 211-104 v191209jgv1 \$150.00

Other Engineering Services		
	Component Description:	KGA 211-100
		v191030jgv1
	Amount:	\$325.00
		KOA 244 95
	Component Description:	KGA 211-85 v190808jgv1
	Amount:	\$1,100.00
		÷ , · · · · · · · · · · · · · · · · · ·
	Component Description:	RF calculations for
		new equipment
		purchases
	Amount:	\$265.00
	Component Description:	Primary Antenna
	Amount:	Analysis \$1,139.50
		\$1,100.00
	Component Description:	Prep and submit
		actual cost invoices
	Amount:	\$275.00
	Component Description:	Coverage
		comparisons for
		proposed antenna selection
	Amount:	\$265.00
	Component Description:	Prep, amend and
		submit actual cost
		invoices
	Amount:	\$397.50

Other Legal Services		
	Component Description:	GSB 727564
	• · · · ·	v191030jgv1
	Amount:	\$324.00
	Component Description:	GSB 726461
		v191008jgv1
	Amount:	\$504.00
	Component Description:	GSB 713173
	component Description.	v190624jgv1
	Amount:	\$210.00
	Component Description:	GSB 716828
	Amount:	v190826jgv1 \$90.00
	Component Description:	GSB 720616
	Amount:	v190826jgv1
	Amount:	\$90.00
	Component Description:	GSB 720207
		v190826jgv1
	Amount:	\$150.00
	Component Description:	GSB 712794
		v190613jgv3
	Amount:	\$510.00
	Component Description:	GSB 712794
		v190826jgv1
	Amount:	\$660.00
Additional Field	Information not provided.	
Engineering Service, 6		
Days		

1		
Comprehensive coverage verification via field study, if needed	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Legal services related to Quarterly report for WLED \$30.00
	Component Description: Amount:	Various Legal services related to Repack for WLED \$119.25
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	KGA 211-98 v191030jgv1 \$725.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	KGA 211-88 v190826jgv1 \$2,500.00
	Component Description:	FCC Construction Permit application for Main Facility -
	Amount:	WLED \$2,000.00
Perform engineering study for new channel assignment and antenna development	Component Description:	engineering study for new channel assignment and antenna
	Amount:	development \$3,250.00
Prepare and or review reimbursement form		
	Component Description:	KGA 211-75 v190624jgv1
	Amount:	\$1,153.50
	Component Description:	KGA 211-80 v190711jgv1
	Amount:	\$175.00
	Component Description:	KGA 211-94
	Amount:	v191030jgv1 \$375.00
	Component Description:	KGA 211-87
	Amount:	v190826jgv1 \$2,375.00
	Component Description:	KGA 211-111 v200127jgv1
	Amount:	\$2,550.00

	Component Description: Amount:	KGA 211-102 v191115jgv1 \$875.00
	Component Description: Amount:	KGA 211-92 v190916jgv1 \$1,000.00
	Component Description:	KGA inv #211-73 Actual Cost invoices by RG March 2019 UL20190424jgv1
	Amount:	\$200.00
	Component Description: Amount:	Preparation of original Form 399 for reimbursement \$2,500.00
	Component Description:	KGA 211-82
	Amount:	v190711jgv1 \$2,675.00
	Component Description:	Consultation regarding reimbursable items.
	Amount:	\$801.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Other Expenses

Cost Information

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	\$73,550.00	\$73,000.00		\$4,535.00	
Equipment Delivery and Handling Charges	\$50,000.00	\$50,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$10,000.00	\$10,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,895.00	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	\$1,640.00	N/A
Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$73,550.00	\$73,000.00	N/A	\$4,535.00	N/A
Total for all systems	\$2,404,736.82	\$2,311,523.76	N/A	\$1,055,909.29	N/A

Actual Information	
Description	File Name

Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility		
Notification	Component Description:	KGA 211-90
		v190826jgv1
	Amount:	\$2,895.00
MVPD Notification of		
Channel Change	Component Description:	KGA 211-89
		v190826jgv1
	Amount:	\$1,640.00
Develop and air	Information not provided.	
announcement of upcoming		
channel change		

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,404,736.82	\$2,311,523.76	\$1,055,909.29

Reimbursem	entestiatus	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	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.	
		 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 above- named applicant for the Authorization(s) specified above.	Jeffrey C Gehman Engineering Associate 02/06/2020

Certification	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).	
		 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).
- 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.

	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
an aut name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Jeffrey C Gehman Engineering Associate
		02/06/2020

Attachments