

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

			-		
Facility	69397	Service: DTV	Call	WUNP-TV	Channel: 27 (UHF)
ID:			Sign:		
File 0000026701					
Number:					
FRN: 00	01910066	Date	10/04		
		Submitted:	/2019		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
University of North Carolina Doing Business As: University of North Carolina	PO Box 14900 Research Triangle Park, NC 27709 United States	+1 (919) 549- 7000	fcc_notice@unctv. org	Government Entity

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Ontact Name and Information

Contact Information	Applicant	Address	Phone	Email
	Donald Smith	Donald Smith	+1 (919)	dsmith@unctv.
	Director of New Technologies	10 T.W. Alexander	549-7000	org
	Compliance & Planning	Drive		
	University of North Carolina	Research Triangle		
	Center for Public Television	Park, NC 27709		
		United States		

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	The transition plan is to construct an interim facility at the existing site. The interim facility would be used when operation on the new channel begins. After that the necessary changes would be made to the primary transmission system.

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

Auxiliary	Add Transmitter Information				
ransmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Auxiliary (Backup)		
		Description of Use	Aux		
		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	DHD45P2		
		Year	2001		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	10.5 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	ULXTE-20		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	11.75 kW		
		Justification for New Transmitter	The transmitter manufacturer has indicated that components necessary to modify the transmitter for operation on its new channel are no longer available and it will not be able to provide re- channelization services for the transmitter. See attached letter		

Auxiliary	Other Transmitter Costs
Transmitter	Section

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

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	DCX-2		
		Year	2001		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	40 kW		

Existing Transmitter Information

Primary	New Transmitter Costs			
Transmitter	Section New Transmitter	Question	Response	
		Use	Primary (Main)	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Manufacturer		
		Model	ULXTE-60	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	34 kW	
		Justification for New Transmitter	The transmitter manufacturer has indicated that components necessary to modify the transmitter for operation on its new channel are no longer available and it will not be able to provide re- channelization services for the transmitter. See attached letter	

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 Other Transmitter Cost Not Listed

Transmitter Information not provided.

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

Auxiliary					
Antenna	Section	Question	Response		
	Existing Antenna Description	Type of change	Purchase New		
		Antenna Use	Auxiliary (Backup)		
		Description of Use	Aux		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this antenna currently shared with any other stations?	No		
		Is this antenna directional?	No		
		Is antenna in operating condition?	Yes		
		Is antenna located on or in close proximity to an antenna farm?	No		
	Existing Antenna	Class	Full Power		
	Manufacturer and Type	Mounting	Side 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)	205.7 kW		

Auxiliary Add Antenna Information

Manufacturer	
Model	ATW24HS3- HSO-36S
Year	2008

Auxiliary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Auxiliary (Backup)	
		Description of Use	Interim Facility and Eventual Auxiliary	
		Change Type	Purchase New	
		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 Manufacturer and Types	Class	Full Power	
		Mounting	Side 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)	312.0 kW	

Manufacturer	
Model	SAA22-O3- G200-ES4R 27
Year	2019
Justification for New Antenna	The antenna can only operate on channel 36. The replacemen antenna will be initially used as part of the interim facility during the transition. Following the transition it will become a permanent auxiliary antenna.

Auxiliary Other Antenna Costs

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Ante	enna	1

าล	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		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	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power 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

Other Antenna Cost Not Listed Auxiliary Antenna

Information not provided.

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	Elliptical		
		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)	125.0 kW		

Manufacturer	
Model	TFU-15JTH /VP-R O4
Year	2010

Primary	New Antenna Costs			
Antenna	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?	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 Manufacturer and Types	Class	Full Power	
		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)	248.0 kW	
		Manufacturer		
			1	

Model	SAA14- O4A-G300- ET5R-27
Year	2019
Justification for New Antenna	The antenna is a single channel slotted pylon style antenna. It cannot operate on a channel other than what it was designed, channel 36. The only viable option is to replace the antenna.

Primary Other Antenna Costs Antenna Section

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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	6 1/8 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 Other Antenna Cost Not Listed

Antenna Informatio

Information not provided.

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

Auxiliary	Add Transmission Line		
Transmissio	n Section	Question	Response
	Existing Transmission Line Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	Interim and Eventual Auxiliary
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is this transmission currently shared with any other stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission	Manufacturer	
	Line Manufacturer and Type	Туре	Rigid
		Diameter	3 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	800 feet per run

Auxiliary Transmissio	New Transmission Line		
	n Line Section	Question	Response
	New Transmission Line Costs	Use	Auxiliary (Backup)
		Description of Use	Interim and Eventual Auxiliary
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Туре	Rigid
		Diameter	4 1/16 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	800 feet per run
			1

Justification for New Transmission Line	Constructing
	a viable
	interim
	facility with
	meaningful
	coverage
	area
	requires a
	system with
	increased
	power
	handling
	capability.
	This is best
	addressed
	by replacing
	the
	transmissio
	line with
	higher
	power
	handling
	capability.
	See
	transition
	plan
	narrative

 Other Transmission Line Expenses Not Listed

 Transmission
 Line

 tion
 Description

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 Description	Type of change	Move Equipment	
		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?	Yes	
		Is tower compliant with Rev G?	Yes	
	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1014576	
Nor	Coordinates (NAD83 (North American Datum	Latitude (NAD83)	36° 17' 29.2" N-	
	of 1983))	Longitude (NAD83)	077° 50' 09.4" W-	
		Overall Structure Height	1143.03 feet	
		Support Structure Height	1112.19 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	284.12 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	UNIVERSITY OF NORTH CAROLINA
Date Constructed	05/13/2011

Primary Tower Section

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Other Tower Expenses Not Listed

PrimaryOther Tower ExpensTowerInformation not provided.

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	120
		Explanation	Because the transmission site is owned by the State of North Carolina, it is subject to various state construction project rules. One rule is the hiring of a designer to create submittals for project review and approval by the state.
	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	Yes
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes
		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	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	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	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A

Outside Professional				
	Services Costs	Description		
	Additional Legal Expenses	Legal expenses for non-catalog advice and review, including transition status reports and other miscellaneous legal needs.		
	Tower Structural Analysis	Required by State Building Code		

Outside Other Professional Services Expenses Not Listed

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?	No
		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

Other

Other				
Expenses	Name	Description		
	Network Switch	Cisco 52-port Gigabit Switch connects devices together on computer network by using packet switching to receive, process, and forward data to destination device		
	Electrical Construction	Construction and modifications to the electrical infrastructure of the existing building as required to support the new transmitters		
	General Construction	General construction and administrative costs necessary for the installation of transmitters in the existing building.		
	Mechanical Construction	Construction and modifications to the HVAC infrastructure of the existing building as required to support the new transmitters		

Transmitters

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 Transmitter ULXTE-60	\$1,025,550.00	\$1,002,912.41		\$835,300.14	Gustinoution
UHF - Liquid Cooled Solid State Transmitter 34 kW	\$1,000,000.00	\$1,000,000.00	A quote from Comark for a replacement IOT transmitter is attached. That quote is substantially higher than the catalog pricing amount for the proposed solid state transmitter. The proposed transmitter should be eligible for full reimbursement.	\$832,387.73	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$2,912.41	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$2,912.41	N/A
Auxiliary Transmitter ULXTE-20	\$520,050.00	\$471,958.60		\$237,104.94	

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$470,000.00	N/A	\$235,146.34	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$1,958.60	***System Notice: Estimate adjusted and locked because line has been superseded.	\$1,958.60	N/A
Sub-total	\$1,545,600.00	\$1,474,871.01	N/A	\$1,072,405.08	N/A
Total for all systems	\$2,983,785.70	\$2,770,765.01	N/A	\$1,624,619.71	N/A

Components

Actual Information	
Description	Fil

ile Name

UHF - Liquid Cooled Solid		
State Transmitter 34 kW	Component Description:	50% Transmitter
		& Installation,
		Installation
		included w
		/Transmitter on
		Form 399.
		Purchase Order
		includes all 11
		sites. Transformer
		on line 16 of
		Quote is separate
		Form 399 Line
		Item.
	Amount:	\$452,285.15
	Component Description:	Main Transmitter
		Invoice Due Date
		revised to Vendor
		Terms N 60
		Purchase Order
		includes all 11
		sites.
	Amount:	\$380,102.58
Transformer 3 phase/480v -		
150 KVA	Component Description:	50% Transformer
		included with
		Transmitter Cost
		on Invoice. See
		Quote line item
		16. Purchase
		Order is for all 11
		Sites.

Component Description:	50% Aux Transmitter & Installation (Installation included w /Transmitter on Form 399). Transformer on line 17 of quote separate Form 399 Line Item. Purchase Order
Amount:	for all 11 sites. \$138,753.79
Component Description:	Aux. Transmitter. Credit for transformer applied with transmitter per FCC Hotline (Paige 7/8/2019) due to system error. Invoice due date corrected to vendor terms (net 60). See attachment pgs. 2- 4 for summary. \$96,392.55
	·
Component Description:	50% of Transformer on Line 17 of quote is included with Transmitter Cost on Invoice. Purchase Order is
	Amount: Amount:

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
Primary Antenna SAA14- O4A-G300- ET5R-27	\$308,530.00	\$160,536.03		\$71,218.01	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	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 , elliptically or circularly polarized	\$289,500.00	\$142,436.03	See RFS Antenna Narrative and quotes	\$71,218.01	N/A
Auxiliary Antenna SAA22-O3- G200- ES4R-27	\$271,710.00	\$187,076.00		\$72,288.00	

Pattern scatter analysis for side mount high /med power antennas (if not included in antenna\$\$,260.00 store\$\$,000.00 storeN/AN/AN/ASide mount high /med power antennas (if not included in antenna\$23,150.00 store\$22,000.00N/AN/AN/ASide mount brackets for high power antennas (if not included in antenna base cost)\$22,000.00N/AN/AN/ASide mount brackets for high power antennas (if not included in antenna base cost)\$22,000.00N/AN/AN/ASide mount brackets for high power antennas complex, single channel, at antenna input, per 4 1/16. feedline (if needed)\$9,570.00\$9,100.00N/AN/AN/ASweep test of existing antenna\$6,730.00\$6,400.00N/AN/AN/AN/A						
mount brackets for high power antennas (if not included in antenna base cost)\$9,570.00\$9,100.00N/AN/AN/AElbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)\$9,730.00\$6,400.00N/AN/AN/ASweep test of existing\$6,730.00\$6,400.00N/AN/AN/AN/A	scatter analysis for side mount high /med power antennas (if not included in antenna	\$5,260.00	\$5,000.00	N/A	N/A	N/A
complex, single channel, at antenna input, per 4 1/16. feedline (if needed)set of \$6,730.00set of \$6,400.00N/AN/ASweep test of existing\$6,730.00\$6,400.00N/AN/AN/A	mount brackets for high power antennas (if not included in antenna	\$23,150.00	\$22,000.00	N/A	N/A	N/A
test of existing	complex, single channel, at antenna input, per 4 1/16. feedline (if	\$9,570.00	\$9,100.00	N/A	N/A	N/A
	test of existing	\$6,730.00	\$6,400.00	N/A	N/A	N/A

UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$144,576.00	See RFS Narrative with quotes	\$72,288.00	N/A
Sub-total	\$580,240.00	\$347,612.03	N/A	\$143,506.01	N/A
Total for all systems	\$2,983,785.70	\$2,770,765.01	N/A	\$1,624,619.71	N/A

Actual Information Description	File Name	
Elbow complex, single channel, at antenna input, per 6 1/8. 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 , elliptically or circularly polarized	Component Description:	50% Primary Antenna (See Bid Page 58 Attachment A Pricing Form Item 59) included in Inv & PO Line 19. Invoice & Purchase Order are for all 10 sites. \$71,218.01

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.	
Sweep test of existing antenna	Information not provided.	
UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	Component Description:	50% Auxilliary Antenna (See Bid Page 57 Attachment A Pricing Form Item 56) included in Inv & PO Line 19. Invoice & Purchase Order are for all 10 sites
	Amount:	\$72,288.00

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
Auxiliary Transmission Line	\$113,600.00	\$76,078.71		\$38,039.36	
Rigid Transmission Line - copper, 4 1 /16"	\$113,600.00	\$76,078.71	See RFS Narrative with attached pricing	\$38,039.36	N/A
Sub-total	\$113,600.00	\$76,078.71	N/A	\$38,039.36	N/A
Total for all systems	\$2,983,785.70	\$2,770,765.01	N/A	\$1,624,619.71	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 4 1/16"	Component Description:	50% Auxilliary Transmission Line (Bid Page 57 Attachment A Pricing Form Item 57) included in Inv & PO Line 19. Invoice & Purchase Order are for 10 sites.
	Amount:	\$38,039.36

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 TOWER	\$210,500.00	\$257,406.56		\$193,055.67	
Tall Tower (greater than 500')	\$210,500.00	\$257,406.56	See RFS Narrative with attached Pricing	\$193,055.67	N/A
Sub-total	\$210,500.00	\$257,406.56	N/A	\$193,055.67	N/A
Total for all systems	\$2,983,785.70	\$2,770,765.01	N/A	\$1,624,619.71	N/A

Actual Information	
Description	File Name

Tall Tower (greater than 500')		
	Component Description:	Auxiliary / interim antenna installation. Purchase Order is
		for 10 sites.
	Amount:	\$64,351.89
	Component Description:	50% Primary/Tall
		Tower Installation (See Bid Page 58 Attachment A
		Pricing Form Item
		58) for Auxilliary
		Antenna included
		in Inv & PO Line
		20. Invoice &
		Purchase Order
		are for 10 sites.
	Amount:	\$64,351.89
	Component Description:	See Bid Page 57
		Attachment A
		Pricing Form Item
		60) for Primary
		Antenna included
		in Inv & PO Line
		20. Invoice &
		Purchase Order
	A	are for 10 sites.
	Amount:	\$64,351.89

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 \$93,275.00	Estimated Cost \$179,776.00	Estimated Cost Justification	Actual Cost \$116,067.76	Actual Cos Justificatic
Professional Services	\$93,273.00	\$179,776.00		\$110,007.70	
Tower Structural Analysis	\$7,000.00	\$7,000.00	N/A	\$2,500.00	N/A
Additional Legal Expenses	\$24,500.00	\$24,500.00	Preliminary estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs.	\$4,622.21	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
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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$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	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$525.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,675.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$2,000.00	N/A	\$750.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Project management of the transition	\$18,960.00	\$113,026.00	See attachment "WUNP Program Designer - Manager Narrative" for details on estimated cost	\$105,995.55	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Sub-total	\$93,275.00	\$179,776.00	N/A	\$116,067.76	N/A
Total for all systems	\$2,983,785.70	\$2,770,765.01	N/A	\$1,624,619.71	N/A

Actual Information Description	File Name	
Tower Structural Analysis		
	Component Description: Amount:	Outside Professional Services Tower Structural Analysis See attachment page 7 for schedule of services. \$2,500.00
Additional Legal Expenses		

Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 350.00/11 equal 31.82 as outlined on page 1 of invoice. \$31.82
Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 572.90/11 equal 52.08 as outlined on page 1 of invoice. \$52.08
Component Description:	Outside Professional Services Additional Legal Expenses
Amount:	\$67.40

Component Description:	Outside
	Professional
	Services
	Additional Legal
	Expenses Legal
	services benefit
	entire FCC
	Repack project
	across all 11 Call
	Signs/Facility IDs,
	765.00/11 equal
	69.54 as outlined
	on page 1 of
	invoice.
Amount:	\$69.54
Component Description:	Outside
Component Description:	Outside Professional
Component Description:	
Component Description:	Professional
Component Description:	Professional Services
Component Description:	Professional Services Additional Legal
Component Description:	Professional Services Additional Legal Expenses Legal
Component Description:	Professional Services Additional Legal Expenses Legal services benefit
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs,
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 402.00/11 equal
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 402.00/11 equal 36.54 as outlined
Amount:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 402.00/11 equal 36.54 as outlined on page 1 of
	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 402.00/11 equal 36.54 as outlined on page 1 of invoice.

Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 959.50/11 equal 87.23 as outlined on page 1 of invoice. \$87.23
Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2594.40/11 equal 235.86 as outlined on page 1 of invoice. \$235.86
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$146.00

Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$474.50
Component Description: Amount:	Outside Prof. Svcs Additional Legal Expenses \$182.50
Component Description: Amount:	Outside Professional Svcs. Additional Legal Expenses \$109.50
Component Description:	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$245.00 /11 as indicated on
Amount:	page 1 of Invoice \$22.27

Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2059.90/11 equal 187.26 as outlined on page 1 of invoice. \$187.26
Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 315.00/11 equal 28.63 as outlined on page 1 of invoice. \$28.63
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$35.00

Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 1617.10/11 equal 147.01 as outlined on page 1 of invoice. \$147.01
Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 67.40/11 equal 6.13 as outlined on page 1 of invoice. \$6.13
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$67.40

Component Description:	Outside
	Professional
	Services
	Additional Legal
	Expenses Legal
	services benefit
	entire FCC
	Repack project
	across all 11 Call
	Signs/Facility IDs,
	368.00/11 equal
	33.45 as outlined
	on page 1 of
	invoice.
Amount:	\$33.45
Component Description	Outside
Component Description:	Outside Professional
Component Description:	Professional
Component Description:	Professional Services
Component Description:	Professional Services Additional Legal
Component Description:	Professional Services
Component Description:	Professional Services Additional Legal Expenses Legal
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC
Component Description:	Professional Services Additional Legal Expenses Legal services benefit
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs,
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 175.00/11 equal
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 175.00/11 equal 15.91 as outlined
Amount:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 175.00/11 equal 15.91 as outlined on page 1 of
	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 175.00/11 equal 15.91 as outlined on page 1 of invoice.

Component Description:	Outside
	Professional
	Services
	Additional Legal
	Expenses Legal
	services benefit
	entire FCC
	Repack project
	across 10 of 11
	Call Signs/Facility
	IDs, 3378.88/10
	equal 337.89 as
	outlined on page 1
	of invoice.
Amount:	\$337.89
Component Description:	Outside
Component Description:	Outside Professional
Component Description:	Professional
Component Description:	Professional Services
Component Description:	Professional Services Additional Legal
Component Description:	Professional Services
Component Description:	Professional Services Additional Legal Expenses Legal
Component Description:	Professional Services Additional Legal Expenses Legal services benefit
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs,
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal 315.64 as outlined
Component Description:	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal 315.64 as outlined on page 1 of
	Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal 315.64 as outlined on page 1 of invoice.

Component Description:	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$70.00/11 as indicated on page 1 of Invoice \$6.36
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$33.70
Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 168.50/11 equal 15.32 as outlined on page 1 of invoice. \$15.32
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$105.00
Amount:	\$105.00

Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$70.00
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$35.00
Component Description:	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 323.00/11 equal 29.37 as outlined on page 1 of invoice. \$29.37
Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$35.00

	Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$35.00
	Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$885.70
	Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$70.00
	Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$539.20
	Component Description: Amount:	Outside Professional Services Additional Legal Expenses \$73.00
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Amount:	Outside Prof Svcs Consult Engineer CP for Aux \$525.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Main/Primary
	Amount:	\$1,675.00

Perform engineering study for new channel assignment and antenna development	Component Description:	Outside Professional Services Engineering Study New Channel Assignment Antenna Development \$750.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description: Amount:	Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary \$6,703.50
	Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary. PO/Contract for all eleven transmitter sites. \$5 141 83
	Amount:	\$5,141.83

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary. \$5,141.83
Component Description:	Outside Professional Services Project Management of Transition See attachment pg. 3-6 for Contract /Invoice Summary. PO/Contract for all eleven transmitter sites. \$3,792.19
Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-6 for Contract /Invoice Summary. PO/Contract for all eleven transmitter sites. \$10,283.66

Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary \$11,881.60
Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary \$4,352.64
Component Description:	Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary \$49,675.80
Component Description:	Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary \$9,022.50

	Component Description:	Outside
		Professional
		Services Projec
		Management
	Amount:	\$9,022.50
ASR modification (prepare	Information not provided.	
FCC Form 854)		

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	\$440,570.70	\$435,020.70		\$61,545.83	
Network Switch	\$1,048.00	\$1,048.00	See attachment - WUNP Network Switch Justification	\$1,047.97	N/A
Mechanical Construction	\$140,365.00	\$140,365.00	See attached document WUNP GC Budget for justification and additional information	N/A	N/A
General Construction	\$65,071.24	\$65,071.24	See attached document WUNP GC Budget for justification and additional information	\$8,395.67	N/A
Electrical Construction	\$147,306.46	\$147,306.46	See the attached document, WUNP GC Budget for justification and additional information	\$14,227.20	N/A

MVPD Notification of Channel Change	\$5,500.00	\$5,500.00	Preliminary estimate of service	\$463.64	N/A
Develop and air announcement of upcoming channel change	\$2,000.00	\$2,000.00	Preliminary estimate	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$67,730.00	\$67,730.00	Quotes for disposal of both transmitters are attached	\$33,661.35	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	Preliminary estimate of service	\$3,750.00	N/A
Sub-total	\$440,570.70	\$435,020.70	N/A	\$61,545.83	N/A
Total for all systems	\$2,983,785.70	\$2,770,765.01	N/A	\$1,624,619.71	N/A

Actual Information Description	File Name	
Network Switch		
	Component Description:	Other Expenses
		Network Switch 11
		Switches for total
		of 11,527.67
		equals 1,047.97
		per transmitter
		site.
	Amount:	\$1,047.97
Mechanical Construction	Information not provided.	

General Construction		
	Component Description:	Other Expenses General Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites.
	Amount:	\$8,395.67
Electrical Construction		
	Component Description:	Other Expenses Electrical Contract See attachment pg 1 for payment details by contract /site including payment responsibility. PO for 6 sites. \$14,227.20
MVPD Notification of Channel Change	Component Description:	MVPD Notify See attach pg. 12-13 \$5,100 for 11 sites equal 463.64 each \$463.64
Develop and air	Amount: Information not provided.	ֆ403.04
announcement of upcoming channel change	F	

Disposal Costs (for equipment and other wast	e, Component Decorintion	50% Primary
net of any salvage value)	Component Description:	•
		Transmitter
		Disposal.
		Purchase Order
		for all 11 sites.
	Amount:	\$19,878.75
	Component Description:	50% Aux
		Transmitter
		Disposal.
		Purchase Order i
		for all 11 sites.
	Amount:	\$13,782.60
DTV Medical Facility		
Notification	Component Description:	Other Expenses
		DTV Med Notify
	Amount:	-
	Amount:	\$3,750.00

Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,983,785.70	\$2,770,765.01	\$1,624,619.71

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
Certification	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. 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).
- 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.	
an aut name	are, under penalty of perjury, that I am chorized representative of the above- d applicant for the Authorization(s) ied above.	Donald Smith Director of New Technologies Compliance & Planning
		10/04/2019

Attachments