



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **69300** | Service: **DTS** | Call **WUNF-TV** | Channel: **20 (UHF)** |  
ID: | Sign:  
File **0000033807**  
Number:  
FRN: **0001910066** | Date **03/21**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

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

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Donald Smith</b>	Donald Smith	+1 (919)	dsmith@unctv.
<i>Director of New Technologies</i>	10 T.W. Alexander	549-7025	org
<i>Compliance &amp; Planning</i>	Drive		
<i>University of North Carolina</i>	Research Triangle		
<i>Center for Public Television</i>	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		WUNF-TV is a DTS station with 2 sites. The transition plan for WUNF-TV is to construct a new facility at a different site for site #1 due to issues outlined in the unable to construct waiver request. Site #2 will be constructed at the existing site.

**Transmitters**

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

**Auxiliary  
Transmitter****Add Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary - Site 1
	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	LU2500ATD
	Year	2008
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.5 kW

**Auxiliary  
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	16 kW
	Justification for New Transmitter	A different site is having to be used due to the inability to construct the new channel facility at the existing channel 25 site.#1.

**Auxiliary  
Transmitter****Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes

	Size	2 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Electrical feed disconnects and other items necessary to meet electrical code requirements
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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 Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DCX-2
	Year	1996
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	40 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-100
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	53.5 kW
	Justification for New Transmitter	A different site is having to be used due to the inability to construct the new channel facility at the existing channel 25 site.#1.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes

	Size	2 inches
	Length	200.0 feet
	Other Electrical Service	Yes
	Description	Electrical feed disconnects and other items necessary to meet electrical code requirements Estimate for non-categorized items necessary to meet electrical code requirements
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A



Primary Transmitter	Other Transmitter Cost Not Listed
	Information not provided.

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	2
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	LU250
	Year	2003
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	0.25 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TXUD-250
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	0.25 kW
	Justification for New Transmitter	The transmitter support company has indicated that they may be able to provide re-channelization proposals for some models. At this time they have failed to provide a proposal. See attachment for further details.

**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	Yes
	Description	Electrical feed disconnects and other items necessary to meet electrical code requirements
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Primary  
Transmitter**

**Other Transmitter Cost Not Listed**

Information not provided.

**Antennas**

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

**Auxiliary  
Antenna****Add Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary - Site 1
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	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) .....	113.5 kW

Manufacturer	
Model	TFU-16DSB-M
Year	2003

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## Auxiliary Antenna

### New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	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
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1000.0 kW
	Manufacturer	



Model	SAA20-C170-G400-ES6R-20
Year	2019
Justification for New Antenna	A different site is having to be used due to the inability to construct the new channel facility at the existing channel 25 site.#1.

## Auxiliary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches

<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Auxiliary Antenna

### Other Antenna Cost Not Listed

Information not provided.

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	125.0 kW

Manufacturer	
Model	ATW12HS4- ESC170- 25S
Year	2010

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Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1000.0 kW
	Manufacturer	

Model	SAA20-C170-E400-ET6R-20
Year	2019
Justification for New Antenna	A different site is having to be used due to the inability to construct the new channel facility at the existing channel 25 site.#1.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches

<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

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	2
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Other
	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	Narrowband Panel
	ERP: (Effective Radiated Power)	1.5 kW



Manufacturer	
Model	4DR-8-2HW
Year	2003

Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	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
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	4
	Lower Limit	470.00 MHz
	Upper Limit	862.00 MHz
	Design power capacity in use	25.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	1.35 kW
	Manufacturer	

Model	2x2 750 10325
Year	2019
Justification for New Antenna	The current antenna is designed to operate on channel 25 plus or minus one or two channels. The antenna will not operate properly on channel 20.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No

<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission Line**

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

**Auxiliary  
Transmission Line**

**Add Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Site #1 Emergency Auxiliary Part 1
	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	210 feet per run

**Auxiliary**      **New Transmission Line**  
**Transmission Line**      **Section**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	650 feet per run
	Justification for New Transmission Line	A different site is having to be used due to the inability to construct the new channel facility at the existing channel 25 site.#1.

**Auxiliary**      **Other Transmission Line Expenses Not Listed**  
**Transmission Line**      **Information not provided.**

**Primary**      **Add Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	400 feet per run



**Primary** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	830 feet per run
	Justification for New Transmission Line	A different site is having to be used due to the inability to construct the new channel facility at the existing channel 25 site.#1.

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Add Tower**

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1023079
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	35° 13' 20.0" N-
	Longitude (NAD83)	082° 32' 58.0" W-
	Overall Structure Height	721.78 feet
	Support Structure Height	672.56 feet
	Ground Elevation Above Mean Sea Level (AMSL)	3425.16 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Capstar Radio Operating Company
	Date Constructed	09/01/1997

**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
59818	WMYI	FM
70149	WYCW	DTV

**Primary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Candelabra
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.

## Primary Tower

### Existing 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?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	35° 28' 25.0" N-
	Longitude (NAD83)	083° 19' 23.0" W-
	Overall Structure Height	98.00 feet
	Support Structure Height	98.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	2421.00 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	University of North Carolina
	Date Constructed	06/07/2012

**Primary Tower**

**Tower Rigging Costs**

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

**Primary Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	250
	Explanation	Because the transmission site is leased 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.
<b>Outside RF consulting Engineering Services</b>	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	2

	Do you have Distributed Transmission System engineering services?	Yes
	Critical Facility	1
	Terrain-Shielded Facility	10
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	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
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A

	Justification	N/A
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Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Microwave License Preparation	Licensing of microwave system
Additional Legal Expenses	Legal expenses for non-catalog advice and review, including transition status reports and other miscellaneous legal needs.
Microwave Frequency Study	Microwave system frequency search for available frequencies.
Microwave PCN	Prior coordination notices for microwave system construction to extend program content distribution to the replacement site.



## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	No
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	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**

**Other Expenses Not Listed**

Name	Description
<b>Microwave Electronics Mods</b>	Parts necessary to modify frequencies of existing radios
<b>Microwave L and A</b>	Microwave System Antennas and Line

## Cost Information

### Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Transmitter ULXTE-100</b>	<b>\$1,893,100.00</b>	<b>\$1,801,200.00</b>		<b>\$769,784.63</b>	
Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements Estimate for non-categorized items necessary to meet electrical code requirements	<i>\$24,900.00</i>	\$24,900.00	Estimate for non-categorized items necessary to meet electrical code requirements	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$5,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	\$5,744.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,700,000.00	N/A	\$764,040.63	N/A
<b>Primary Transmitter TXUD-250</b>	<b>\$16,040.00</b>	<b>\$16,040.00</b>		<b>\$15,040.00</b>	
Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements	<b>\$1,000.00</b>	\$1,000.00	Estimate for non-categorized items necessary to meet electrical code requirements	N/A	N/A
UHF - Air Cooled Solid State Transmitter 0.25 kW	<b>\$15,040.00</b>	\$15,040.00	Manufacturer purchase quote	\$15,040.00	N/A
<b>Auxiliary Transmitter ULXTE-30</b>	<b>\$737,050.00</b>	<b>\$701,700.00</b>		<b>\$191,101.19</b>	
Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements	<b>\$24,900.00</b>	\$24,900.00	Estimate for non-categorized items necessary to meet electrical code requirements	N/A	N/A

2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,500.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$650,000.00	N/A	\$189,142.59	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	\$1,958.60	N/A
<b>Sub-total</b>	\$2,646,190.00	\$2,518,940.00	N/A	\$975,925.82	N/A
<b>Total for all systems</b>	\$4,340,131.30	\$3,781,203.59	N/A	\$1,474,847.86	N/A

## Components

Actual Information	
Description	File Name
Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements Estimate for non-categorized items necessary to meet electrical code requirements	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Transformer 3 phase/480v - 300 KVA	<p><b>Component Description:</b> 50% Request for Transformer that is included on invoice with the cost for transmitter. Transformer has unique 399 Line Item. See line 16 of quote for detail cost. Purchase Order is for all 11 sites.</p> <p><b>Amount:</b> \$5,744.00</p>
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<p><b>Component Description:</b> 50% Primary Transmitter &amp; Installation. Installation included w /Transmitter Cost on Form 399. Purchase Order is for all 11 Sites. Transformer on line 16 of quote is separate Form 399 Line Item.</p> <p><b>Amount:</b> \$764,040.63</p>
Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements	Information not provided.
UHF - Air Cooled Solid State Transmitter 0.25 kW	<p><b>Component Description:</b> Primary Transmitter</p> <p><b>Amount:</b> \$15,040.00</p>

Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<p><b>Component Description:</b> 50% Aux Transmitter &amp; Installation. Installation included w /Transmitter on Form 399. Purchase Order is for all 11 sites. Transformer on line 16 of quote is separate Form 399 Line Item.</p> <p><b>Amount:</b> \$189,142.59</p>
Transformer 3 phase/480v - 150 KVA	<p><b>Component Description:</b> 50% Transformer on line 16 of quote included w /cost of transmitter on invoice. Purchase Order includes all 11 sites.</p> <p><b>Amount:</b> \$1,958.60</p>

Cost  
Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Primary Antenna SAA20- C170-E400- ET6R-20	\$315,390.00	\$182,236.50		\$78,818.25	
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
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$13,200.00	N/A	N/A	N/A
UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$157,636.50	See attached RFS Antenna Change Narrative with Pricing	\$78,818.25	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A



<b>Primary Antenna 2x2 750 10325</b>	<b>\$14,741.80</b>	<b>\$14,411.80</b>		<b>\$8,011.80</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power, Side Mount, broadband panel, 4 bay,, 1 kW input, directional,, elliptically or circularly polarized	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
UHF - High Power, Side Mount, broadband panel, 4 bay,, 1 kW input, directional,, horizontally polarized	<b>\$8,011.80</b>	\$8,011.80	***System Notice: Estimate adjusted and locked because line has been superseded. ***Manufacturer's estimated cost	\$8,011.80	N/A
<b>Auxiliary Antenna SAA20- C170-G400- ES6R-20</b>	<b>\$170,061.50</b>	<b>\$167,621.50</b>		<b>\$60,510.75</b>	
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 7 3/16. feedline (if needed)	\$13,900.00	\$13,200.00	N/A	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<b>\$121,021.50</b>	\$121,021.50	See attached RFS Antenna Change Narrative with Pricing	\$60,510.75	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
<b>Sub-total</b>	\$500,193.30	\$364,269.80	N/A	\$147,340.80	N/A
<b>Total for all systems</b>	\$4,340,131.30	\$3,781,203.59	N/A	\$1,474,847.86	N/A

## Components

**Actual Information**  
**Description**

**File Name**

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Information not provided.
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p><b>Component Description:</b> 50% Primary Antenna included in Inv &amp; PO Line 7. Invoice &amp; Purchase Order are for 10 sites.</p> <p><b>Amount:</b> \$78,818.25</p>
Sweep test of existing antenna	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - High Power, Side Mount, broadband panel, 4 bay,, 1 kW input, directional,, elliptically or circularly polarized	Information not provided.
UHF - High Power, Side Mount, broadband panel, 4 bay,, 1 kW input, directional,, horizontally polarized	<p><b>Component Description:</b> Primary Antenna w/freight cost.</p> <p><b>Amount:</b> \$8,011.80</p>
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 7 3/16. feedline (if needed)	Information not provided.
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<div> <div> <b>Component Description:</b> </div> <div> 50% Auxilliary Antenna included in Inv &amp; PO Line 7. Invoice &amp; Purchase Order are for 10 sites. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$60,510.75 </div> </div>
Sweep test of existing antenna	Information not provided.

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$240,700.00	\$172,486.63		\$86,243.32	
Rigid Transmission Line - copper, 7 3 /16"	\$240,700.00	\$172,486.63	See attached RFS Antenna Change Narrative with Pricing	\$86,243.32	N/A
Auxiliary Transmission Line	\$188,500.00	\$146,788.88		\$73,394.44	
Rigid Transmission Line - copper, 7 3 /16"	\$188,500.00	\$146,788.88	See attached RFS Antenna Change Narrative with Pricing	\$73,394.44	N/A
Sub-total	\$429,200.00	\$319,275.51	N/A	\$159,637.76	N/A
Total for all systems	\$4,340,131.30	\$3,781,203.59	N/A	\$1,474,847.86	N/A

Components

Actual Information Description	File Name
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Rigid Transmission Line - copper, 7 3/16"	<div> <div> <b>Component Description:</b> </div> <div> 50% Primary Transmission Line included in Inv &amp; PO Line 7. Invoice &amp; Purchase Order are for 10 sites. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$86,243.32 </div> </div>
Rigid Transmission Line - copper, 7 3/16"	<div> <div> <b>Component Description:</b> </div> <div> 50% Auxilliary Transmission Line included in Inv &amp; PO Line 7. Invoice &amp; Purchase Order are for 10 sites. </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$73,394.44 </div> </div>

Cost  
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$84,200.00	\$10,000.00		\$0.00	
Short Tower (less than 500')	\$84,200.00	\$10,000.00	N/A	N/A	N/A
Primary Tower TOWER	\$421,000.00	\$312,255.28		\$156,127.64	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$312,255.28	See attached RFS Antenna Change Narrative with Pricing	\$156,127.64	N/A
Sub-total	\$505,200.00	\$322,255.28	N/A	\$156,127.64	N/A
Total for all systems	\$4,340,131.30	\$3,781,203.59	N/A	\$1,474,847.86	N/A

Components

Actual Information	
Description	File Name
Short Tower (less than 500')	Information not provided.

<p>Complex Tower (includes, for example, those with candelabras and/or stacked antennas)</p>	<table> <tr> <td data-bbox="719 100 1145 526"> <p><b>Component Description:</b></p> </td><td data-bbox="1145 100 1428 526"> <p>50% Primary /Complex Tower Installation for Primary Antenna included in Inv &amp; PO Line 8. Invoice &amp; Purchase Order are for 10 sites.</p> </td></tr> <tr> <td data-bbox="719 526 1145 593"> <p><b>Amount:</b></p> </td><td data-bbox="1145 526 1428 593"> <p>\$131,909.83</p> </td></tr> <tr> <td data-bbox="719 593 1145 1019"> <p><b>Component Description:</b></p> </td><td data-bbox="1145 593 1428 1019"> <p>50% Primary /Complex Tower Installation for Auxilliary Antenna included in Inv &amp; PO Line 8. Invoice &amp; Purchase Order are for 10 sites.</p> </td></tr> <tr> <td data-bbox="719 1019 1145 1086"> <p><b>Amount:</b></p> </td><td data-bbox="1145 1019 1428 1086"> <p>\$24,217.81</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>50% Primary /Complex Tower Installation for Primary Antenna included in Inv &amp; PO Line 8. Invoice &amp; Purchase Order are for 10 sites.</p>	<p><b>Amount:</b></p>	<p>\$131,909.83</p>	<p><b>Component Description:</b></p>	<p>50% Primary /Complex Tower Installation for Auxilliary Antenna included in Inv &amp; PO Line 8. Invoice &amp; Purchase Order are for 10 sites.</p>	<p><b>Amount:</b></p>	<p>\$24,217.81</p>
<p><b>Component Description:</b></p>	<p>50% Primary /Complex Tower Installation for Primary Antenna included in Inv &amp; PO Line 8. Invoice &amp; Purchase Order are for 10 sites.</p>								
<p><b>Amount:</b></p>	<p>\$131,909.83</p>								
<p><b>Component Description:</b></p>	<p>50% Primary /Complex Tower Installation for Auxilliary Antenna included in Inv &amp; PO Line 8. Invoice &amp; Purchase Order are for 10 sites.</p>								
<p><b>Amount:</b></p>	<p>\$24,217.81</p>								



Cost  
Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$132,185.00	\$134,850.00		\$35,815.84	
Microwave PCN	<i>\$1,000.00</i>	\$1,000.00	Preliminary estimate of services	N/A	N/A
Microwave Frequency Study	<i>\$1,100.00</i>	\$1,100.00	Preliminary Estimate of Engineering Services	N/A	N/A
Additional Legal Expenses	<i>\$10,000.00</i>	\$10,000.00	Preliminary estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs; estimate exceeds predetermined cost estimate.	\$4,124.44	N/A
Microwave License Preparation	<i>\$1,000.00</i>	\$1,000.00	Preliminary Estimate for Services	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
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$10,000.00	Cost estimated to exceed Predetermined Cost Estimate.	\$4,684.50	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	\$2,089.40	N/A
DTS Site RF Consulting Engineer - Terrain-shielded Facility	\$26,300.00	\$25,000.00	N/A	N/A	N/A

DTS Site RF Consulting Engineer - Critical Facility	\$8,420.00	\$8,000.00	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	\$5,000.00	Estimated Cost Exceeds PreDetermined Cost Estimate	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,937.50	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$6,250.00	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	\$39,500.00	\$37,500.00	N/A	\$15,730.00	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$132,185.00	\$134,850.00	N/A	\$35,815.84	N/A
<b>Total for all systems</b>	\$4,340,131.30	\$3,781,203.59	N/A	\$1,474,847.86	N/A

## Components

Actual Information	
Description	File Name
Microwave PCN	Information not provided.
Microwave Frequency Study	Information not provided.
Additional Legal Expenses	

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$33.70

<b>Component Description:</b>	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 page 1 of Invoice
<b>Amount:</b>	\$22.27

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$350.00 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$31.82

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$175.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$303.30

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$572.90 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$52.08

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$175.00 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$15.91

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$70.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$959.50 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$87.22

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$105.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$175.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$3472.00 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$315.63

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2594.40/11 for 235.85 as outlined on page 1 of invoice.
<b>Amount:</b>	\$235.85

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$630.00

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2059.90/11 for 187.27 as outlined on page 1 of invoice.
<b>Amount:</b>	\$187.27



<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$402.00 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$36.55

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$105.00

<b>Component Description:</b>	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
<b>Amount:</b>	\$6.37

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses
<b>Amount:</b>	\$868.70

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

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$67.40/11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$6.13

<b>Component Description:</b>	Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$323.00 /11 as indicated on page 1 of Invoice
<b>Amount:</b>	\$29.36

**Component Description:**

Outside  
Professional  
Services  
Additional Legal  
Expenses Invoice  
applies to all 11  
repack stations,  
amount requested  
reflects portion  
payable per  
Station: \$765.00  
/11 as indicated on  
page 1 of Invoice

**Amount:**

\$69.55

**Component Description:**

Outside  
Professional  
Services  
Additional Legal  
Expenses Invoice  
applies to all 11  
repack stations,  
amount requested  
reflects portion  
payable per  
Station: \$368.00  
/11 as indicated on  
page 1 of Invoice

**Amount:**

\$33.46

**Component Description:**

Outside  
Professional  
Services  
Additional Legal  
Expenses

**Amount:**

\$35.00

	<p><b>Component Description:</b> Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$168.50 /11 as indicated on page 1 of Invoice</p> <p><b>Amount:</b> \$15.32</p>
	<p><b>Component Description:</b> Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$315.00 /11 as indicated on page 1 of Invoice</p> <p><b>Amount:</b> \$28.64</p>
	<p><b>Component Description:</b> Outside Professional Services Additional Legal Expenses</p> <p><b>Amount:</b> \$303.30</p>
Microwave License Preparation	Information not provided.
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	<div> <div> <b>Component Description:</b> </div> <div> Outside Professional Services Attorney Fees STA </div> </div> <div> <b>Amount:</b> </div> <div> \$2,604.30 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Outside Professional Services Attorney Fees STA </div> </div> <div> <b>Amount:</b> </div> <div> \$1,519.80 </div>
	<div> <div> <b>Component Description:</b> </div> <div> Outside Professional Services Attorney Fees STA </div> </div> <div> <b>Amount:</b> </div> <div> \$560.40 </div>
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	<div> <div> <b>Component Description:</b> </div> <div> Outside Professional Services Attorney Fees Construction Permit </div> </div> <div> <b>Amount:</b> </div> <div> \$2,089.40 </div>
DTS Site RF Consulting Engineer - Terrain-shielded Facility	Information not provided.
DTS Site RF Consulting Engineer - Critical Facility	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	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<div> <div> <b>Component Description:</b> </div> <div> Outside Professional Services RF Engineering Consulting Fees Construction Permit Application Main/Primary </div> </div> <div> <b>Amount:</b> </div> <div> \$2,937.50 </div>

Perform engineering study for new channel assignment and antenna development	<div> <b>Component Description:</b> Outside Professional Services Engineering Study New Channel Assignment Antenna Development         </div> <div> <b>Amount:</b> \$2,600.00         </div>
	<div> <b>Component Description:</b> Outside Professional Services Perform Engineering Studies Quote is RATE CARD furnished by vendor for Professional Services they offer and are not specific to any particular station.         </div> <div> <b>Amount:</b> \$1,775.00         </div>
	<div> <b>Component Description:</b> Outside Professional Services Engineering Study New Channel Assignment Antenna Development         </div> <div> <b>Amount:</b> \$1,875.00         </div>
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	<div data-bbox="715 174 1366 443"> <p><b>Component Description:</b> Outside Professional Services Project Management See Attachment Pg. 3 &amp; 4 for Summary</p> <p><b>Amount:</b> \$9,022.50</p> </div> <div data-bbox="715 555 1350 745"> <p><b>Component Description:</b> Outside Professional Services Project Management</p> <p><b>Amount:</b> \$9,022.50</p> </div> <div data-bbox="715 853 1378 1160"> <p><b>Component Description:</b> Outside Professional Services Project Management See attachment pg. 3 &amp; 4 for Project Summary</p> <p><b>Amount:</b> \$6,707.50</p> </div>
Prepare request for Special Temporary Authorization	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.



Cost  
Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$127,163.00	\$121,613.00		\$0.00	
Microwave L and A	<i>\$57,813.00</i>	\$57,813.00	See attached quote	N/A	N/A
Microwave Electronics Mods	<i>\$24,900.00</i>	\$24,900.00	Estimated costs for replacement microwave oscillators and filters.	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$24,900.00</i>	\$24,900.00	The decommissioning of site #1 is an unknown due to the current site access issues.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$6,000.00	Preliminary Service Estimate	N/A	N/A
MVPD Notification of Channel Change	<i>\$6,000.00</i>	\$6,000.00	Preliminary Service Estimate	N/A	N/A
Sub-total	\$127,163.00	\$121,613.00	N/A	\$0.00	N/A
Total for all systems	\$4,340,131.30	\$3,781,203.59	N/A	\$1,474,847.86	N/A

Components

Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$4,340,131.30	\$3,781,203.59
			\$1,474,847.86

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	The facility has ceased operating on its pre-auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Donald Smith</b>  <i>Director of New Technologies Compliance &amp; Planning</i></p> <p>03/21/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Robert Levin</b>  <i>Director of Finance and Administration</i></p> <p>03/21/2019</p>

## Attachments