Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **11113** | Service: **DTV** | Call Sign: **WGBP-TV** | Channel: **17 (UHF)**

File Number: **0000028669**

FRN: **0001751940** | Date Submitted: **01/12/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CNZ COMMUNICATIONS SE, LLC	Randy E. Nonberg 15200 Sunset Blvd Suite 202 PACIFIC PALISADES, CA 90272 United States	+1 (310) 573-1600	randynonberg@cnzcommunications.com	Limited Liability Company

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
Thomas Edmund Long , Jr . *Director of Engineering* *CNZ Communications SE LLC*	Thomas Long Jr 526 Main Avenue SE Hickory, NC 28602 United States	+1 (828) 324-5265	tlongjr@whky.com

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	Current transmission system is being replaced with a 2-site DTS. Work includes tower study/rehabilitation to support new antenna, t-line and transmitter at both sites.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Alternate
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Quantum
	Year	2006
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	55 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	THU9-36 Evo
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	Existing transmitter is no longer supported. This new transmitter is the alternate xmtr of a main-alternate system that is the direct replacement of the existing transmitter.

Auxiliary 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	4 inches
	Length	125.0 feet
	Other Electrical Service	Yes
	Description	Wiring and support for cooling system and control.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other 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 Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Quantum
	Year	2006
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	55 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	THU9-36 Evo
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	Existing 110kw main-alternate TX is no longer supported by the manufacturer. This new transmitter is the main transmitter for WLGA. Another transmitter is listed as the replacement alternate transmitter.

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	4 inches
	Length	125.0 feet
	Other Electrical Service	Yes
	Description	Support of Cooling systems, and control
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Primary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	No
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	N/A
	Year	2000
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	19 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	THU9EVO-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19 kW
	Justification for New Transmitter	This transmitter provides the RF signal for site #2 of the WLGA DTS. The present licensed facility does not include a DTS site #2 xmtr.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	N/A

	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Antennas

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

Primary Antenna

Add 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 this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	No
	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	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	8
	Design power capacity in use	50.0 %
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	120.0 kW

Manufacturer	
Model	New for DTS #2
Year	2000

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	12
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Design power capacity in use	18.5 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	120.0 kW
	Manufacturer	

	Model	ETU6U8-ESP2C-17
	Year	2020
	Justification for New Antenna	This antenna radiates the signal from Site #2 of the WLGA DTS. This is a new site and a new antenna.

Primary Antenna

Other Antenna Costs

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

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Custom mounts	The antenna needs custom mounts to place the antenna at the right distance from the tower.

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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	500.0 kW

Manufacturer	
Model	ATW24G475-HSS-30
Year	2006

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?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	500.0 kW
	Manufacturer	
	Model	TBD

	Year	2017
	Justification for New Antenna	Existing antenna is not designed to operate on the repack channel

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	7 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	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

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	350.0 kW
	Manufacturer	
	Model	TFU16WB
	Year	2017

	Justification for New Antenna	Need lower side mount antenna to remain on air during replacement of main antenna

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	3 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim 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

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1765 feet per run

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1765 feet per run
	Justification for New Transmission Line	According to manufactures freq chart the existing line lengths will not support the repacked channel.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Primary Transmission Line

Add Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	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	1 feet per run

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	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	1040 feet per run
	Justification for New Transmission Line	This is new transmission line for the WLGA DTS site #2 which provides the RF signal to the site #2 antenna.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Primary Transmission Line

Add Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	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	1 feet per run

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	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	1040 feet per run
	Justification for New Transmission Line	This transmission line is used for Site #2 of the approved DTS. Reimbursement was approved for 3" T-line and the licensee of WLGA/WGBP has decided to purchase 6" T-line. The licensee is aware it is responsible for the amount between the additional cost.

Other Transmission Line Expenses Not Listed

Primary Transmission Line

Information not provided.

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	200 feet per run
	Justification for New Transmission Line	Need to move line to install new main antenna. Need 200 feet of line to reach from current combiner to base of tower

Interim Transmission Line

Other Transmission Line Expenses Not Listed

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	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1018795
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	32° 51' 06.8" N-
	Longitude (NAD83)	084° 42' 05.5" W-
	Overall Structure Height	1102.35 feet
	Support Structure Height	1053.14 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1305.76 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION
Date Constructed	03/07/2016

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

Facility ID	Call Sign	Service
23918	WJSP-TV	DTV

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	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?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1243417
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	32° 19' 16.4" N-
	Longitude (NAD83)	084° 47' 28.2" W-
	Overall Structure Height	1765.73 feet
	Support Structure Height	1642.70 feet
	Ground Elevation Above Mean Sea Level (AMSL)	482.93 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	American Tower, LLC
	Date Constructed	10/06/2005

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
595	WTVM	DTV
39457	WVRK	FM
3359	WRBL	DTV

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Crew Rain Delay	Tower Crew was delayed for two days due to heavy rain.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	300
	Explanation	Applicant has no internal resources capable of overseeing, identifying, purchasing, installing and commissioning this repack project. It will rely solely on outside services to manage all work required.
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	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A

	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
PMO and FS SURVEY	Project management service for DTS Site #2 and field strength survey for DTS Site #2. FS study is necessary due to fact that the facility is a DTS.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
PMO DTS 2	Project management for WLGA DTS Site #2.
Antenna and line ship tax	Shipping and tax for ERI Master order WLGA DTS2
Antenna and Line Ship Tax	Shipping and tax for ERI Master order WLGA DTS1
FS Survey	Field strength survey for DTS Site #2.
Inside Coax for DTS site 1	This is for coax to tie the transmitter to filter and the filter to the antenna system
Local Zoning permits	Permits for construction and related matters for WLGA DTS Site 2.
Mater Clock time system	This provided time sync to the transmitter to lock frequency and Data together for both transmitters
Miscellaneous expenses for DTS Site 2.	Med notifications, disposal, storage, etc, costs for WLGA DTS site 2.
Old DTS1 TX Removal	Remove old Acrodine transmitter cabinets 1,2,and3. Cabinet 4 retune to channel 17 install temp ch 30 and ch 17 RF system.
Water System Cable Tray	Parts need to install water system for DTS1 and DST2

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
Primary Transmitter THU9-36 Evo	**$1,878,125.00**	**$1,480,008.00**		**$1,394,207.02**	
Other Electrical Service: Support of Cooling systems, and control	***$2,500.00***	$2,500.00	Provide support for cooling system on liquid cooled transmitter	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	$12,625.00	$12,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$35,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	$1,788,000.00	$1,394,208.00	See attached quote to justify the new estimated amount.	$1,394,207.02	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A
Primary Transmitter THU9EVO-12	**$741,800.00**	**$656,200.00**		**$447,945.90**	
Switchgear - industrial 800 amp	$38,200.00	$37,150.00	N/A	N/A	N/A

3" Rigid Conduit and Wiring (Cost per foot)	$5,200.00	$5,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	$684,000.00	$600,000.00	N/A	$447,945.90	N/A
Service entrance 3 phase/800 amp/208 volt	$14,400.00	$14,050.00	N/A	N/A	N/A
Auxiliary Transmitter THU9-36 Evo	**$1,878,125.00**	**$1,484,333.00**		**$990,757.35**	
Other Electrical Service: Wiring and support for cooling system and control.	***$2,500.00***	$2,500.00	N/A	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	$12,625.00	$12,625.00	N/A	N/A	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$36,800.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$38,200.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	$1,788,000.00	$1,394,208.00	See the attached quote for the new estimated cost of the transmitter.	$990,757.35	N/A
Sub-total	$4,498,050.00	$3,620,541.00	N/A	$2,832,910.27	N/A
Total for all systems	$8,644,699.91	$7,593,175.91	N/A	$5,099,282.00	N/A

Components

Actual Information Description	File Name
Other Electrical Service: Support of Cooling systems, and control	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	**Component Description:** **Amount:**	Transmitter sales tax. $171,506.67
	Component Description: **Amount:**	Cost of parts needed for install per site survey. $11,774.70
	Component Description: **Amount:**	The amount of 50% is requested because it is for the main transmitter of the main & alternate pair of transmitters. This includes 50% of the RF system cost. $660,504.90
	Component Description: **Amount:**	Transmitter cost balance. $220,168.30
	Component Description: **Amount:**	The amount of 50% is requested because it is for the main transmitter of the main & alternate pair of transmitters. This includes 50% of the RF system cost. $330,252.45
Switchgear - industrial 800 amp	Information not provided.	

Switchgear - industrial 800 amp	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	**Component Description:** 30% downpayment for transmitter. **Amount:** $125,592.30 **Component Description:** Balance of transmitter cost including sales tax. **Amount:** $322,353.60
Service entrance 3 phase /800 amp/208 volt	Information not provided.
Other Electrical Service: Wiring and support for cooling system and control.	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 300 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	**Component Description:**	The amount of 50% is requested because it is for the alternate transmitter of the main & alternate pair of transmitters. This includes 50% of the RF system cost.
	Amount:	$330,252.45
	Component Description:	The amount of 50% is requested because it is for the alternate transmitter of the main & alternate pair of transmitters. This includes 50% of the RF system cost.
	Amount:	$660,504.90

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU16WB	**$232,240.00**	**$220,800.00**		**$33,620.40**	
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	$0.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	$0.00	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	$189,500.00	$180,000.00	N/A	$33,620.40	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$0.00	N/A

Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	$7,600.00	$7,400.00	N/A	N/A	N/A
Primary Antenna ETU6U8-ESP2C-17	**$144,240.00**	**$147,100.00**		**$103,403.50**	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$8,120.00	Scatter analysis engineering required additional effort and time to achieve the desired results.	$7,837.50	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$23,150.00	N/A	$0.00	N/A
Sweep test of existing antenna	$6,730.00	$6,730.00	N/A	$6,250.00	N/A
Custom mounts	***$6,000.00***	$6,000.00	N/A	$2,000.00	N/A

UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	$103,100.00	$103,100.00	Licensee is purchasing Epol antenna. Licensee recognizes it is responsible for cost difference between Hpol and Epol antenna. Quotes for both Epol antenna & Hpol antenna are provided. See Antenna cover letter attachment.	$87,316.00	N/A
Primary Antenna TBD	**$229,040.00**	**$226,800.00**		**$174,415.00**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$6,250.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, horizontally polarized	***$180,000.00***	$180,000.00	From the catalog - One station –200-500 kW, horizontally polarized $125,000 - $180,000	$155,740.00	N/A

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	$5,260.00	$5,200.00	N/A	$2,625.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$22,000.00	N/A	$9,800.00	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
Sub-total	$605,520.00	$594,700.00	N/A	$311,438.90	N/A
Total for all systems	$8,644,699.91	$7,593,175.91	N/A	$5,099,282.00	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)	**Component Description:** **Amount:**	Request moved to pattern scatter analysis main antenna. N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	**Component Description:** **Amount:** **Component Description:** **Amount:**	Transmission Line and parts for temp antenna to remove main and replace with new antenna $25,260.70 Temp install for WLGA. Tower crew cost for that operation. $33,620.40
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:**	10% cost of scattering study.
	Amount:	$480.00
	Component Description:	Engineering analysis of scattering analysis results and impact of nearby guy wire upon the radiation patterns, investigation of tower mods and identification of tower mods to antenna mounting brackets.
	Amount:	$3,037.50
	Component Description:	50% cost of antenna scattering study.
	Amount:	$2,400.00
	Component Description:	40% of cost prior to mobilization.
	Amount:	$1,920.00
Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:**	transferred request to custom mounts
	Amount:	N/A
	Component Description:	transferred request to custom mounts
	Amount:	N/A

Sweep test of existing antenna	**Component Description:** **Amount:**	40% of cost prior to mobilization. $2,500.00
	Component Description: **Amount:**	10% cost of system sweep. $625.00
	Component Description: **Amount:**	50% cost of system sweep. $3,125.00
Custom mounts	**Component Description:** **Amount:**	50% of cost prior to shipment. $1,000.00
	Component Description: **Amount:**	50% of cost upon order. $1,000.00
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	**Component Description:** **Amount:**	50% cost of replacement antenna. $43,658.00
	Component Description: **Amount:**	50% cost of replacement antenna. $43,658.00

Sweep test of existing antenna	**Component Description:**	2nd 1/2 Sweep Test part of master invoice quote. Item 32 of quote.
	Amount:	$3,125.00
	Component Description:	Sweep Test part of master invoice quote. Item 32 of quote.
	Amount:	$3,125.00
UHF - High Power, Side Mount, basic slot antenna, 500 kW input, directional,, horizontally polarized	**Component Description:**	2nd 1/2 Main Antenna and Scatter Study part of master invoice quote. Item 1 and 4 of quote.
	Amount:	$77,870.00
	Component Description:	Main Antenna and Scatter Study part of master invoice quote. Item 1 and 4 of quote.
	Amount:	$77,870.00

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	Engineering services: analysis and determination of cells recovered with DTS32 KW ERP vs proposed 150 kW ERP; review of scattering analysis and coordination of antenna separation distance from tower. $2,625.00
Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:**	50% cost of custom mounts. $1,000.00 Side Mount Brackets part of master invoice quote. Item 3 of quote. $4,900.00 2nd 1/2 Side Mount Brackets part of master invoice quote. Item 3 of quote. $4,900.00
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	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
Interim Transmission Line	**$14,800.00**	**$25,260.00**		**$25,260.70**	
Flexible Air Transmission Line - dielectric, 4"	$14,800.00	$25,260.00	This cost included connectors, reducers, and matching transformers.	$25,260.70	This estimated cost included line, connectors, reducers, and matching transformers.
Primary Transmission Line	**$511,850.00**	**$487,140.00**		**$444,999.64**	
Rigid Transmission Line - copper, 7 3 /16"	$511,850.00	$487,140.00	N/A	$444,999.64	N/A
Primary Transmission Line	**$210,080.00**	**$187,150.00**		**$94,901.50**	

Rigid Transmission Line - copper, 6 1/8"	$210,080.00	$187,150.00	Licensee is purchasing 6" transmission line for DTS Site #2 and recognizes that it is responsible for cost difference between reimbursable 3 inch line and 6 inch line. See attached transmission line cover letter.	$94,901.50	N/A
Primary Transmission Line	**$210,080.00**	**$5,000.00**		**$4,851.00**	
Rigid Transmission Line - copper, 6 1/8"	$210,080.00	$5,000.00	These components are used to mate the outside transmission line to the line inside the building. These are 6" components and the Licensee is responsible for the difference between the 3" price and the 6" price indicated on the quotes.	$4,851.00	N/A
Sub-total	$946,810.00	$704,550.00	N/A	$570,012.84	N/A
Total for all systems	$8,644,699.91	$7,593,175.91	N/A	$5,099,282.00	N/A

Components

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 4"	**Component Description:** **Amount:**	Cost of Temp line, connectors, Reducers, and matching transformers $25,260.70
Rigid Transmission Line - copper, 7 3/16"	**Component Description:** **Amount:**	2nd 1/2 trans line part of master invoice quote. Quote items 5-24 and 26 to 31. $222,499.82
	Component Description: **Amount:**	Rain delay tower days due to bad weather tower crew could not work. $5,000.00
	Component Description: **Amount:**	Sweep Test part of master invoice quote. Quote items 5-24 and 26 to 31. $222,499.82

Rigid Transmission Line - copper, 6 1/8"	**Component Description:** **Amount:**	transferred request to shipping freight cost N/A
	Component Description: **Amount:**	Moved to a new cost line item. N/A
	Component Description: **Amount:**	Balance of the replacement antenna cost. $47,450.75
	Component Description: **Amount:**	50% cost of transmission line. $47,450.75
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** **Amount:**	Cost of additional comparable components. $4,851.00

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 GTOWER	**$399,800.00**	**$380,000.00**		**$373,266.50**	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$25,000.00	N/A	$22,845.00	N/A
Minor tower reinforcement /modifications	$158,000.00	$150,000.00	N/A	$147,684.00	N/A
Tall Tower (greater than 500')	$210,500.00	$200,000.00	N/A	$197,737.50	N/A
Tower Crew Rain Delay	*$5,000.00*	$5,000.00	N/A	$5,000.00	N/A
Primary Tower GTOWER	**$644,100.00**	**$753,415.00**		**$714,465.00**	
Tall Tower (greater than 500')	$210,500.00	$200,000.00	N/A	$173,350.00	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$12,300.00	N/A	N/A	N/A

Major tower reinforcement /modifications	$421,000.00	$541,115.00	See attached quote for DTS Site #2 tower. WLGA agrees to this portion per agreement with tower owner.	$541,115.00	Estimated cost of the tower modification is $1,082,230. 50% is the share of WLGA of the total cost.
Sub-total	$1,043,900.00	$1,133,415.00	N/A	$1,087,731.50	N/A
Total for all systems	$8,644,699.91	$7,593,175.91	N/A	$5,099,282.00	N/A

Components

Actual Information Description	File Name	
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:**	Invoice for broadcast tower mapping including proposal/purchase order approved /accepted signed and dated.
	Amount:	$16,345.00
	Component Description:	Tower Map part of master invoice quote. Item 25 of quote.
	Amount:	$3,250.00
	Component Description:	2nd 1/2 Tower Map part of master invoice quote. Item 25 of quote.
	Amount:	$3,250.00

Minor tower reinforcement /modifications	**Component Description:**	2nd 1/2 Install part of master invoice quote. Item 33 partial
	Amount:	$73,842.00
	Component Description:	Install part of master invoice quote. Item 33 partial.
	Amount:	$73,842.00
Tall Tower (greater than 500')	**Component Description:**	Invoice for broadcast structural including proposal/purchase order accepted /approved and signed and dated.
	Amount:	$10,475.00
	Component Description:	Repack engineering services: investigation of tower costs attributable to WLGA for purpose of determining reimbursement for form 399.
	Amount:	$262.50
	Component Description:	2nd 1/2 Install part of master invoice quote. Item 33 partial.
	Amount:	$90,000.00

	Component Description:	Install part of master invoice quote. Item 33 partial.
	Amount:	$90,000.00
	Component Description:	Tower engineering study of modification /changes of the structural drawings.
	Amount:	$2,000.00
	Component Description:	American Tower services: address transition timing and coordination issues; management of the timeliness and schedules. Site coordination meeting.
	Amount:	$5,000.00
Tower Crew Rain Delay		
	Component Description:	Tower Crew Rain Delay
	Amount:	$5,000.00

Tall Tower (greater than 500')	**Component Description:** **Amount:**	Contract balance of tower rigging and installation services. $111,262.50
	Component Description: **Amount:**	Design and construction of ice bridge. $25,000.00
	Component Description: **Amount:**	Downpayment prior to mobilization: tower rigging and installation of antenna and transmission line. $37,087.50
Structural engineering tower load study for well documented tower	Information not provided.	
Major tower reinforcement /modifications	**Component Description:** **Amount:**	Cost of the tower modification cost as explained in the cover letter submitted. $541,115.00

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	**$710,145.00**	**$700,250.00**		**$112,099.00**	
PMO and FS SURVEY	***$530,000.00***	$530,000.00	The estimate includes 300 hours of engineering time plus $80000 for time to execute the field strength study.	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	N/A	$66,471.50	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$7,360.00	$7,000.00	N/A	$5,911.50	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	$2,433.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$0.00	N/A
Prepare request for Special Temporary Authorization	$4,100.00	$3,000.00	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	$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$0.00	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$4,900.00	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	$2,215.50	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	N/A	N/A
Project management of the transition	$47,400.00	$45,000.00	N/A	$27,842.50	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	$2,325.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	$0.00	N/A
Sub-total	$710,145.00	$700,250.00	N/A	$112,099.00	N/A
Total for all systems	$8,644,699.91	$7,593,175.91	N/A	$5,099,282.00	N/A

Components

Actual Information Description	File Name
PMO and FS SURVEY	Information not provided.
Comprehensive coverage verification via field study, if needed	**Component Description:** Engineering Services: Revise coverage and interference analysis for site #1 and site #2; adjustment of ERP and antenna patterns; interference analysis and generation of maps for FCC review. **Amount:** $3,675.00 **Component Description:** Engineering services: "well served" analysis, options for DTS primary site, FCC meeting in Washington DC. **Amount:** $12,896.50 **Component Description:** Repack engineering services: 7/1 to 7/31 /20; analysis for DTS CP mod for updated antennas and higher RCAGL. **Amount:** $2,362.50

Component Description:	Engineering repack services: coverage map for union of DTS sites; discussed additional structural costs for addition of WLGA DTS Site 2.
Amount:	$437.50
Component Description:	Repack engineering services: recreation of 399 form for site #2, and review transmitter and antenna combo justification.
Amount:	$1,137.50
Component Description:	Engineering repack services for November 2018.
Amount:	$1,662.50
Component Description:	Engineering repack services; creation of CP extension and revised antenna specifications.
Amount:	$1,050.00
Component Description:	Engineering analysis for CP mod for higher RCAGL
Amount:	$450.00

Component Description:	Engineering analysis for CP mod for higher RCAGL.
Amount:	$3,150.00
Component Description:	Engineering analysis for mounting bracket and contact TEP about tower grounding. CP mod for new antenna ERP and mounting height.
Amount:	$2,812.50
Component Description:	Engineering services: site parameters and antenna studies; review with ERI for Site 2; Site 2 budget and transmission system study, including 399 concerns.
Amount:	$6,475.00
Component Description:	Engineering repack services: pattern review for antennas, DTS-2 transmission system configuration, coordination with outside consultant for transmitter power requirements.
Amount:	$4,375.00

Component Description:	Engineering Services: WLGA re-engineer WLGA DTS site #1 and site #2; adjustment of ERP and antenna patterns ; interference analysis and generation of maps for FCC review.
Amount:	$6,037.50
Component Description:	Engineering services: DTS, DTS-2, preparation of exhibits and information for conference with FCC Eval team regarding 399.
Amount:	$10,850.00
Component Description:	Engineering repack services: investigation of tower cost for 399 reimbursement and update of form 399.
Amount:	$1,225.00

	Component Description:	Research of channel options for CP. Dev of Ch 3 transmission system and creation of CP application. Ch 17 engineering analysis to recapture population lost due to repack. DTS engineering analysis and exhibit preparation.
	Amount:	$7,875.00
Attorney Fees - Prepare and File request for Special Temporary Authorization	**Component Description:**	Attorney fees for extension of STA, tolling of CP, draft exhibits for STA extension, finalize and file tolling and extension of STA.
	Amount:	$2,980.00
	Component Description:	Billing filing of request to withdraw major change application, application for WLGA DTS .
	Amount:	$399.00
	Component Description:	Attorney consultation with WLGA officer and project engineer regarding WLGA repack reimbursement issues.
	Amount:	$278.00

	Component Description:	Invoice billing drafting request for withdrawal of major change application and discussion regarding application dismissal.
	Amount:	$466.50
	Component Description:	Attorney fees: review status of tolling and STA; finalize and file further request for tolling and STA.
	Amount:	$1,788.00
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	**Component Description:**	Attorney fees: confer with Greg Best regarding modification of CP.
	Amount:	$149.00
	Component Description:	Attorney fees: revise and edit exhibit to modification of CP.
	Amount:	$521.50
	Component Description:	Attorney fees: review application to modify CP for DTS2.
	Amount:	$223.50

	Component Description: **Amount:**	Attorney fee for discussion regarding status with FCC. $270.00
	Component Description: **Amount:**	Consultation regarding follow-up with FCC; FCC reimbursement; transition report, MVPD and consumer notification requirements. $1,120.00
	Component Description: **Amount:**	Attorney fee for telephone conference regarding timing of construction and potential extension. $149.00
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	**Component Description:** **Amount:**	Channel repack plan and preparation of construction permit exhibits. $700.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Engineering services: channel repack plan and preparation of construction permit exhibits. $700.00

Perform engineering study for new channel assignment and antenna development	**Component Description:**	WLGA repack: prepare CP and assist with 399 preparation and review for repacked channel.
	Amount:	$525.00
	Component Description:	WLGA channel repack plan and preparation of construction permit exhibits; evaluate move to Atlanta.
	Amount:	$700.00
	Component Description:	Service through 10 /30/17 repack engineering services; quarterly progress report; final engineering and creation of application for DTS.
	Amount:	$1,312.50
	Component Description:	Engineering Services: WLGA service loss recovery analysis; analysis to identify alternate antenna patterns and ERP to cover entire authorized coverage area.
	Amount:	$3,062.50

Attorney Fees - Negotiation of lease and other matters for shared locations	**Component Description:** **Amount:** **Component Description:** **Amount:**	Attorney fees regarding tower lease with Georgia Public Broadcasting and review reimbursement for DTS transmitter. $2,215.50 Invoice billing discussion regarding potential move scenario. $211.50
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.	
Project management of the transition	**Component Description:** **Amount:**	Engineering repack services: 12/1/20 to 12/31/20, creation of maps for WGBP to include population coverage, license to cover for WGBP. $675.00

Component Description:	Engineering repack services: 9/1 to 9/30 /20, form 399 review and submissions.
Amount:	$562.50
Component Description:	Engineering repack services: 10/1/20 to 11/30/2020.
Amount:	$1,800.00
Component Description:	Project management of the transition, pre-construction services.
Amount:	$9,480.00
Component Description:	WLGA repack project management services. Research and coordination with engineering attorney, vendors and site owner.
Amount:	$1,500.00
Component Description:	Engineering repack services: 1/120 to 1 /31/20, project management activities and revised DTS2 antenna specifications.
Amount:	$450.00

Component Description:	Project management, assistance to identify and discuss tower work with tower crew.
Amount:	$1,800.00
Component Description:	Form 399 update.
Amount:	$450.00
Component Description:	Repack engineering services from 10/1 to 11/1/19: project management activities, investigate and resolve 399 issues, update form 399 regarding transmitter reimbursement.
Amount:	$2,900.00
Component Description:	Engineering repack services from 12/1 /19 to 1/4/20: project management activities, investigate and resolve 399 issues, update form 399 regarding transmitter reimbursement.
Amount:	$2,900.00

Component Description:	Engineering repack services: project management, assistance to identify and discuss tower work with tower crew.
Amount:	$1,125.00
Component Description:	Project management of WLGA project in field and in office.
Amount:	$43,125.00
Component Description:	Engineering repack services: project management activities and investigate/resolve and update 399 regarding transmitter reimbursement.
Amount:	$1,000.00
Component Description:	Repack engineering services from 11/1 to 11/30/19: project management activities, investigate and resolve 399 issues, update form 399 regarding transmitter reimbursement.
Amount:	$3,200.00

Prepare and or review reimbursement form	**Component Description:**	Invoice billing reveiw of WLGA DTS and repack application status.
	Amount:	$627.00
	Component Description:	Attorney fee for telephone conference regarding transmitter reimbursement and timing.
	Amount:	$69.50
	Component Description:	Invoice billing WLGA repack to finalize and file 399 and CP.
	Amount:	$500.00
	Component Description:	Prepare and review form 399
	Amount:	$1,350.00
	Component Description:	Update form 399.
	Amount:	$225.00
	Component Description:	Attorney fees to review FCC response to request for reimbursement and prepare cover letter for reimbursement request.
	Amount:	$903.50

Address transition timing and coordination issues w/ other stations and wireless	**Component Description:** **Amount:**	Address transition and coordination issues with other stations. $2,500.00

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	**$840,274.91**	**$839,719.91**		**$185,089.49**	
Water System Cable Tray	***$7,500.00***	$7,500.00	N/A	$6,968.26	N/A
Miscellaneous expenses for DTS Site 2.	***$15,000.00***	$15,000.00	N/A	$6,452.50	N/A
Local Zoning permits	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Antenna and line ship tax	***$75,000.00***	$75,000.00	N/A	$10,794.98	N/A
MVPD Notification of Channel Change	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$2,500.00***	$2,500.00	N/A	$0.00	N/A
Equipment Storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$2,000.00***	$2,000.00	N/A	N/A	N/A

Non-zoning permits	***$2,000.00***	$2,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$1,110.00	Cost of FCC fees.	$1,110.00	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$200.00	Amount of FCC filing fees.	$200.00	N/A
Local Zoning	***$2,000.00***	$2,000.00	N/A	N/A	N/A
Inside Coax for DTS site 1	***$25,000.00***	$25,000.00	N/A	$17,451.00	N/A
Mater Clock time system	***$15,000.00***	$15,000.00	N/A	$11,436.90	N/A
PMO DTS 2	***$450,000.00***	$450,000.00	N/A	N/A	N/A
Old DTS1 TX Removal	***$40,000.00***	$40,000.00	N/A	$33,690.94	N/A
Antenna and Line Ship Tax	***$91,084.91***	$91,084.91	N/A	$91,084.91	N/A
FS Survey	***$80,000.00***	$80,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$5,900.00	N/A
Sub-total	$840,274.91	$839,719.91	N/A	$185,089.49	N/A
Total for all systems	$8,644,699.91	$7,593,175.91	N/A	$5,099,282.00	N/A

Components

Actual Information Description	File Name	
Water System Cable Tray	**Component Description:**	Cable tray parts need to install the water system for DTS1
	Amount:	$4,039.63
	Component Description:	Cable tray parts need to install the water system for DTS2
	Amount:	$2,928.63
Miscellaneous expenses for DTS Site 2.	**Component Description:**	Attorney fee: correspondence and telephone conference regarding DTS2 reimbursement issues.
	Amount:	$556.00
	Component Description:	Design and modification of DTS-2 transmission facility, investigate issue with guy wires proximity to antenna.
	Amount:	$5,062.50
	Component Description:	Attorney fee: telephone conference regarding budget and reimbursement for DTS2.
	Amount:	$834.00

Local Zoning permits	Information not provided.
Antenna and line ship tax	**Component Description:** Freight cost of transmission line materials. **Amount:** $1,535.25 **Component Description:** Sales tax of antenna. **Amount:** $7,512.88 **Component Description:** Freight cost of antenna. **Amount:** $1,746.85 **Component Description:** Included in the revised Myat Inc which has been moved to a new cost line item. **Amount:** N/A
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.

FCC Filing Fees - Form 2100 minor change CP application	**Component Description:** **Amount:**	Cost of FCC CP Fees. $1,110.00
	Component Description: **Amount:**	FCC Fees: Modification of a construction permit to convert from DTV to DTS application. $1,070.00
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	**Component Description:** **Amount:**	Cost of STA extension filing fees. $200.00
Local Zoning	Information not provided.	
Inside Coax for DTS site 1	**Component Description:** **Amount:**	Invoice from Myat to provide inside coax to tie transmitter to filter and antenna system. This invoice does not include shipping cost. $17,451.00

Mater Clock time system	**Component Description:** **Amount:**	Invoice from Masterclock to provide timing for transmitter to provide DTS service $11,436.90
PMO DTS 2	Information not provided.	
Old DTS1 TX Removal	**Component Description:** **Amount:**	Removal of 3 of 4 cabinets of Acrodine transmitter. Configure cabinet 4 to run on channel 17 with out driver cabinet. $33,690.94
Antenna and Line Ship Tax	**Component Description:** **Amount:**	Sales Tax and Shipping for ERI master order for Antenna and TX Line $91,084.91
FS Survey	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:** **Component Description:** **Amount:**	WLGA Site 2 Medical Notification Mailing. $2,950.00 WLGA medical notifications completed for the FCC repack. $2,950.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$8,644,699.91	$7,593,175.91	$5,099,282.00

Reimbursement Status

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

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

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

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Thomas Edmund Long , Jr .** *Director of Engineering* 01/12/2021

Certification

Section	Question	Response
Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Thomas Edmund Long , Jr .** *Director of Engineering* 01/12/2021

Attachments