

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File	17611 000002	Service: DTV 8481	Call Sign:	WSRE	Channel: 24 (UHF)
Number:					
FRN: 00	04573473	Date	04/28		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
THE DISTRICT BOARD OF TRUSTEES, PENSACOLA STATE COLLEGE, FL. Doing Business As: THE DISTRICT BOARD OF TRUSTEES, PENSACOLA STATE COLLEGE, FL.	Darrel Harrison 1000 COLLEGE BLVD PENSACOLA, FL 32504 United States	+1 (850) 484- 1285	dharrison@wsre. org	Government Entity

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Preparer Contact Name and Information

Contact Information	Applicant	Address	Phone	Email
	William T Godfrey , Jr Consulting Engineers Kessler and Gehman Associates, Inc.	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507 NW 60 Street, Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	bill@kesslerandgehman. com

Broadcaster	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Νο
	Briefly describe transition plan	Replace transmitter and antenna. Purchase new interim antenna and transmission line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. See attached.

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

Primary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
		Is this transmitter currently in operating condition?	Yes		
	Existing Transmitter	Manufacturer			
	Manufacturer and Type	Model	Diamond		
		Year	2001		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	20.1 kW		

Existing Transmitter Information

Primary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Primary (Main)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Manufacturer			
		Model	U20		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	34 kW		
		Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be re- tuned to the assigned channel. New air cooled transmitters are not available at this power level. See attachment		

Primary Transmitter	Other Transmitter Costs				
	Section	Question	Response		
	Electrical Service	Service Entrance (3 phases 800A 208V)	Yes		

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Heating and Cooling
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter	Other Transmitter Cost Not Listed		
	Name	Description	
	Electrical Design	Electrical Design	
	Electrical	Electrical	
	Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission Line	

Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch
Тах	Тах

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

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	Yes	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	1000.0 kW	

Manufacturer	
Model	ATW-22H4- HTC5-31H
Year	2007

Antenna	Section	Question	Response
	New Antenna Description	Use	Primary (Main
		Description of Use	N/A
		Change Type	Purchase Nev
		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
		es Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	859.0 kW
		Manufacturer	
		Model	ATW17H4- ETC5-24H

Year	2018
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

Other Antenna Costs

Primary Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	8 3/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No

Sweep	Test
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Primary Other Antenna Cost Not Listed

Antenna Information not provided.

Interim	New Antenna Costs			
Antenna	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	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels/Bays	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Design power capacity in use	N/A	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	1000.0 kW	
		Manufacturer		
		Model	ETU8U4- HSP1C-24 /31	

Year	2018
Justification for New Antenna	An interim
	antenna is
	necessary
	to keep
	station on
	the air
	during
	primary
	antenna
	replacemen
	and for the
	duration of
	the
	assigned
	phase.

Interim Other Antenna Costs

Antenna

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	8 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Interim Other Antenna Cost Not Listed

Antenna Information not provided.

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

Existing Transmission Line Primary Existing Transmission

sior	Section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
Existing Transmi Line Manufacture Type		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission	Manufacturer	Andrew
		Туре	Rigid
		Diameter	8 3/16 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	2150 feet per run

Primary Other Transmission Line Expenses Not Listed Transmission

 'Name	Description	
Sweep Tests	Sweep tests to establish performance of line on assigned channel.	
Purchase New Complete Line	Purchase New Complete Line	

New Transmission Line Transmission

nissio	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Rigid
		Diameter	8 3/16 inches
		Segment Length	20'
		Other Segment Length	
	Number of parallel runs	1	
	Length	2000 feet per run	

Justification for New Transmission Line	An interim
	transmissior
	line is
	necessary
	for the
	interim
	antenna to
	keep station
	on the air
	during
	primary
	antenna
	replacement
	and for the
	duration of
	the
	assigned
	phase.
	Interim
	antenna will
	be mounted
	150 ft below
	2000 ft AGL
	candelabra.

Interim	Other Transmission Line Expenses No	t Listed
Transmissio	n _{Name}	Description

Sweep Test	Required for proof

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

Existing Tower Primary

•	•	••	••	~	• •
Т	C	۶v	Ve	er	•

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?	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	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1064671
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	30° 36' 41.0" N-
	Longitude (NAD83)	087° 36' 26.4" V
	Overall Structure Height	1894.01 feet
	Support Structure Height	1804.44 feet
	Ground Elevation Above Mean Sea Level (AMSL)	105.97 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	SpectraSite Communications LLC. through American Towers, LLC.
Date Constructed	04/06/2001

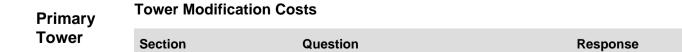
FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
61243	WTKX-FM	FM
73256	WMEZ	FM
11906	WPMI-TV	DTV
63431	WHFX	FM
83740	WDPM-DT	DTV
60827	WMPV-TV	DTV
32946	WXBM-FM	FM

Other Types of Users

Users

6 mwave license



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

Primary Tower Section

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

Other Tower Expenses Not Listed

Primary Tower

Name	Description
Project Management	Project Management
Capital Contribution	Capital Contribution

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	1000
		Explanation	To schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel or personnel or personnel or poject management for such complex projects. Includes 95 hours for American Tower.
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	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	Yes
Additional Field Engineering Service	Yes
Number of Days	30
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

Outside Other Professional Services Expenses Not Listed

Professional	Services Costs	Description
	Other Engineering Services	Other Engineering Services

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

Other Expenses Not Listed

Other	Other Expenses Not Listed		
Expenses	Name	Description	
	Additional Legal Fees	Additional legal fees due to coordinating multiple site user repack for University station.	
	Required Progress Reports	FCC required progress reports	

Transmitters

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actua Justif
Primary Transmitter U20	\$1,287,696.03	\$1,318,146.03		\$967,366.03	
Тах	\$44,053.03	\$44,053.03	See attached / uploaded PDF file titled "Comark S10404- 4A Tax v200124jgv1. pdf"	\$44,053.03	٩
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	N/A	٦
Additional Interior RF System	\$140,000.00	\$140,000.00	N/A	\$0.00	Ν
Electrical	\$48,321.00	\$48,321.00	See attached /uploaded file named Bill Smith Electric quote.pdf	\$48,321.00	Ν
Electrical Design	\$7,000.00	\$7,000.00	N/A	\$7,000.00	٩
20 Ton system	\$115,500.00	\$150,100.00	See attached / uploaded PDF files titled "Trane 310225549 v200428jgv1.pdf", "Trane 310430049 v200428jgv1.pdf" and "Trane 310555347 v200428jgv1.pdf"	\$150,100.00	٦
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	٢

UHF -	\$824,472.00	\$824,472.00	The \$824,472	\$717,892.00	Ν
Liquid	φ 02 <i>τ</i> , <i>41</i> 2.00	ψυΖΨ,ΨΙΖ.00	Estimated Cost is	ψι τι ,032.00	I.
Cooled			directly from the		
Solid State			attached Comark		
Transmitter			proposal		
34 kW			P#3916PRLXU20UPG-		
			011719 and is for an		
			Upgrade transmitter		
			model. Proposal		
			P#3916PRLXU14-		
			011719 is for the fully		
			reimbursable Baseline		
			transmitter model.		
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	٦
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	٢
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	٢
Sub-total	\$1,287,696.03	\$1,318,146.03	N/A	\$967,366.03	٩
Total for all systems	\$3,933,404.93	\$3,958,192.93	N/A	\$2,545,073.82	٢

Components

Actual Information Description	File Name	
Tax	Component Description:	Comark S10404- 4A Tax v200124jgv1
Standby Exciter and Switch	Amount: Information not provided.	\$44,053.03
Additional Interior RF System	Information not provided.	

Electrical		
	Component Description:	Bill Smith 2- FINAL
		v200424jgv1
	Amount:	\$12,021.00
	Component Description:	Bill Smith 1-
		PARTIAL v200424jgv1
	Amount:	\$36,300.00
Electrical Design		
	Component Description:	HG 1950-1 Elec
		constr docs v190801jgv1
	Amount:	\$6,300.00
	Component Description:	HG 1950-2
		v200423jgv1
	Amount:	\$700.00
20 Ton system		
	Component Description:	Trane 310225549
	Amount:	v200428jgv1 \$53,830.00
		φου,ουο.ου
	Component Description:	Trane 310555347
		v200428jgv1
	Amount:	\$2,800.00
	Component Description:	Trane 310430049
		v200428jgv1
	Amount:	\$93,470.00
Service entrance 3 phase /800 amp/208 volt	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 34 kW	Component Description: Amount:	Comark S10404-1 v190703jgv1 \$358,946.00
	Component Description: Amount:	Comark S10404-2 v190827jgv1 \$323,051.40
	Component Description: Amount:	Comark S10404-3 5 pct due on proof v200124jgv1 \$35,894.60
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	

Antennas

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna ETU8U4- HSP1C-24 /31	\$125,199.65	\$122,709.65		\$74,809.65	
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 8 3/16. feedline (if needed)	\$15,250.00	\$14,500.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized Primary Antenna ATW17H4- ETC5-24H Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed) Sweep test of existing antenna UHF - High Power Top Mount (200- 1000 kW), One station antenna,	\$74,809.65 \$311,480.00 \$15,250.00	\$74,809.65 \$157,069.00 \$15,250.00	See uploaded /attached ERI Bid and Invoice WSRE- 37337	\$74,809.65 \$135,419.00 N/A	N/A N/A
Antenna ATW17H4- ETC5-24H Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed) Sweep test of existing antenna UHF - High Power Top Mount (200- 1000 kW), One station			N/A		N/A
complex, single channel, at antenna input, per 8 3/16. feedline (if needed) Sweep test of existing antenna UHF - High Power Top Mount (200- 1000 kW), One station	\$15,250.00	\$15,250.00	N/A	N/A	N/A
of existing antenna UHF - High Power Top Mount (200- 1000 kW), One station					
Power Top Mount (200- 1000 kW), One station	\$6,730.00	\$6,400.00	N/A	N/A	N/A
elliptically or circularly polarized	\$289,500.00	\$135,419.00	N/A	\$135,419.00	N/A
Sub-total	\$436,679.65	\$279,778.65	N/A	\$210,228.65	N/A
Total for all systems		\$3,958,192.93	N/A	\$2,545,073.82	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.	
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 8 3/16. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, horizontally polarized	Component Description: Amount:	ERI WSRE-200 Int ant 50 pct pmt 1 v190722jgv2 \$59,487.50
	Component Description: Amount:	ERI WSRE-37337 Int ant pmt 2 v191031jgv1 \$15,322.15
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description:	ERI WSRE-200 Prim ant 50 pct pmt 1
	Amount:	v190722jgv2 \$67,709.50
	Component Description:	ERI WSRE-37337 Prim ant 50 pct pmt 2
	Amount:	v191031jgv1 \$67,709.50

Transmission Line

Cost Information

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

Description Interim Transmission	Predetermined Cost Estimate \$700,400.00	Estimated Cost \$504,943.00	Estimated Cost Justification	Actual Cost \$498,543.00	Actual Cost Justification
Line Sweep Test	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Rigid Transmission Line - copper, 8 3 /16"	\$694,000.00	\$498,543.00	See uploaded /attached ERI Bid and Invoice WSRE-200	\$498,543.00	N/A
Primary Transmission Line	\$68,793.75	\$68,793.75		\$68,643.75	
Purchase New Complete Line	\$62,393.75	\$62,393.75	See uploaded /attached ERI Bid and Invoice WSRE- 37337	\$62,393.75	N/A
Sweep Tests	\$6,400.00	\$6,400.00	N/A	\$6,250.00	N/A
Sub-total	\$769,193.75	\$573,736.75	N/A	\$567,186.75	N/A
Total for all systems	\$3,933,404.93	\$3,958,192.93	N/A	\$2,545,073.82	N/A

Components

Actual Information Description	File Name
Sweep Test	Information not provided.

Rigid Transmission Line - copper, 8 3/16"	Component Description:	ERI WSRE-200		
	Amount:	Int line 50 pct pmt 1 v190722jgv2 \$249,271.50		
	Component Description:	ERI WSRE-37337 Int line pmt 2 v191031jgv1		
	Amount:	\$249,271.50		
Purchase New Complete				
Line	Component Description:	ERI WSRE-200 Prim line 50 pct pmt 1		
	Amount:	v190722jgv2 \$36,797.50		
	Component Description:	ERI WSRE-37337 Prim line pmt 2		
	Amount:	v191031jgv1 \$25,596.25		
Sweep Tests				
	Component Description:	ERI 82117		
	A	v200423jgv1		
	Amount:	\$3,125.00		
	Component Description:	ERI 50432		
	Amount:	v200423jgv1 \$3,125.00		

Tower Equipment and Rigging Costs

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificatio
Primary Tower GTOWER	\$915,369.50	\$1,244,745.50		\$732,607.90	
Project Management	\$9,480.00	\$9,480.00	See attached / uploaded PDF file titled "Amer Twr 370434 v200428jgv1. pdf"	\$9,480.00	N/A
Capital Contribution	\$37,589.50	\$37,589.50	See attached / uploaded PDF file titled "SpectraSite 160127610 v200423jgv1. pdf"	\$37,589.50	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$21,900.00	See attached / uploaded PDF files titled "Am Twr 160125570 v200423jgv1. pdf" and "Am Twr 160125573 v200423jgv1. pdf"	\$21,900.00	N/A

Major tower reinforcement /modifications	\$421,000.00	\$438,400.00	American Tower provided a proposal to lease tower space for 15 months to accommodate WSRE Interim Antenna (Temporary antenna). See agreement "WSRE ATC Lease for Temporary Antenna.pdf" attached.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$737,376.00	This is a complex candelabra tower. See uploaded /attached ERI Bid and Invoice WSRE-200	\$663,638.40	N/A
Sub-total	\$915,369.50	\$1,244,745.50	N/A	\$732,607.90	N/A
Total for all systems	\$3,933,404.93	\$3,958,192.93	N/A	\$2,545,073.82	N/A

Components

Actual Information Description	File Name	
Project Management		
	Component Description:	Amer Twr 370434 v200428jgv1
	Amount:	\$9,480.00

Capital Contribution		
	Component Description:	SpectraSite
		160127610
		v200423jgv1
	Amount:	\$37,589.50
Tower mapping for an		
undocumented/poorly	Component Description:	SpectraSite
documented tower and		160125573
preparation of		v200423jgv1
documentation necessary for tower load study	Amount:	\$12,400.00
Tor tower load study		
	Component Description:	SpectraSite
		160125570
		v200423jgv1
	Amount:	\$9,500.00
Major tower reinforcement /modifications	Information not provided.	
Complex Tower (includes,		
for example, those with	Component Description:	ERI WSRE-200
candelabras and/or stacked		Ant install 50 pct
antennas)		pmt 1
		v190722jgv2
	Amount:	\$368,688.00
	Component Description:	ERI WSRE-37337
		Ant install 40 pct
		pmt 2
		v191031jgv1
	Amount:	\$294,950.40

Outside Professional Services

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual (Justifica
Outside Professional Services	\$388,466.00	\$406,336.00		\$54,581.00	
Other Engineering Services	\$26,086.00	\$26,086.00	Cost estimate for other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc.	\$26,086.00	N/A
Additional Field Engineering Service, 30 Days	\$60,000.00	\$60,000.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$1,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$1,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,500.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$6,000.00	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	\$15,000.00	The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and Actual Cost invoice prep and submission by KGA.	\$14,745.00	N/A

Project management of the transition	\$158,000.00	\$150,000.00	N/A	\$2,250.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$25,000.00	The station's legal representative recommends \$25,000 to cover this effort.	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Sub-total	\$388,466.00	\$406,336.00	N/A	\$54,581.00	N/A
Total for all systems	\$3,933,404.93	\$3,958,192.93	N/A	\$2,545,073.82	N/A

Components

Actual Information Description	File Name	
Other Engineering Services	Component Description: Amount:	KGA 359-21 v191223jgv1 \$625.00
	Component Description: Amount:	KGA 359-47 v200423jgv1 \$625.00
	Component Description:	KGA 359-19 v191223jgv1 \$625.00
	Component Description:	KGA 359-42 v191216jgv1 \$625.00
	Component Description:	KGA 359-36 v191216jgv1
	Amount: Component Description:	\$1,000.00 KGA 359-31 v191216jgv1
	Amount: Component Description:	\$600.00 KGA 359-23 v191223jgv1
	Amount: Component Description:	\$795.00 KGA 359-35
	Amount:	v200423jgv1 \$2,450.00

	Component Description: Amount:	KGA 359-27 v191223jgv1 \$225.00
	Component Description: Amount:	KGA 359-52 v200423jgv1 \$53.00
	Component Description: Amount:	KGA 359-26 v200423jgv1 \$1,650.00
	Component Description: Amount:	KGA 359-07 v191223jgv1 \$7,680.00
	Component Description: Amount:	KGA 359-51 v200423jgv1 \$100.00
	Component Description: Amount:	KGA 359-30 v200423jgv1 \$350.00
	Component Description: Amount:	KGA 359-08 v191227jgv1 \$2,800.00
	Component Description: Amount:	KGA 359-24 v191216jgv1 \$5,883.00
Additional Field Engineering Service, 30 Days	Information not provided.	
Comprehensive coverage verification via field study, if needed	Information not provided.	

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description: Amount:	KGA 359-39 v191222jgv1 \$1,500.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	KGA 359-45 v191223jgv1 \$1,500.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	KGA 359-04 v191216jgv1 \$2,500.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	KGA 359-04 v191216jgv1 \$6,000.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description: Amount:	KGA 959-32 v191216jgv1 \$1,400.00
	Component Description: Amount:	KGA 359-40 v191222jgv1 \$50.00

	Component Description: Amount:	KGA 359-49 v200423jgv1 \$955.00
	Component Description: Amount:	KGA 359-20 v200423jgv1 \$132.50
	Component Description: Amount:	KGA 359-03 v191216jgv1 \$2,500.00
	Component Description: Amount:	KGA 359-48 v200423jgv1 \$2,850.00
	Component Description: Amount:	KGA 359-53 v200423jgv1 \$200.00
	Component Description: Amount:	KGA 359-37 v191216jgv1 \$3,700.00
	Component Description: Amount:	KGA 359-38 v191216jgv1 \$900.00
	Component Description: Amount:	KGA 359-44 v191216jgv1 \$1,925.00
	Component Description: Amount:	KGA 359-22 v191222jgv1 \$132.50
t of the		

transition

Component Description: Amount:	KGA 359-32 v191222jgv1 \$150.00
Component Description: Amount:	KGA 359-10 v191222jgv1 \$150.00
Component Description: Amount:	KGA 359-05 v191216jgv1 \$300.00
Component Description: Amount:	KGA 359-25 v200423jgv1 \$150.00
Component Description: Amount:	KGA 359-41 v191222jgv1 \$150.00
Component Description: Amount:	KGA 359-54 v200423jgv1 \$150.00
Component Description: Amount:	KGA 359-43 v191222jgv1 \$150.00
Component Description: Amount:	KGA 359-28 v200423jgv1 \$150.00
Component Description: Amount:	KGA 359-50 v200423jgv1 \$150.00

	Component Description: Amount:	KGA 359-11 v191222jgv1 \$150.00
	Component Description: Amount:	KGA 359-46 v200423jgv1 \$150.00
	Component Description: Amount:	KGA 359-09 v191222jgv1 \$225.00
	Component Description: Amount:	KGA 359-06 v191216jgv1 \$225.00
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
RF Exposure Measurements	Information not provided.	

Other Expenses

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatior
Other Expenses	\$136,000.00	\$135,450.00		\$13,103.49	
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	\$1,635.00	N/A
Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Equipment Storage	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	\$15,450.00	\$15,450.00	\$5,450 for American Tower (tower owner) and \$10,000 estimated for building modifications.	N/A	N/A
Local Zoning	\$7,000.00	\$7,000.00	N/A	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,325.00	N/A
Required Progress Reports	\$5,000.00	\$5,000.00	Prepare and assist with FCC- required quarterly progress reports on FCC Form 387.	N/A	N/A
Additional Legal Fees	\$10,000.00	\$10,000.00	Additional legal fees for advise and consultation regarding repack at multiple tenant site for University public TV licensee.	\$8,143.49	N/A
Sub-total	\$136,000.00	\$135,450.00	N/A	\$13,103.49	N/A
Total for all systems	\$3,933,404.93	\$3,958,192.93	N/A	\$2,545,073.82	N/A

Components

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description: Amount:	KGA 359-33 v191216jgv1 \$1,635.00
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.	
Local Zoning	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	KGA 359-34 v191216jgv1 \$3,325.00
Required Progress Reports	Information not provided.	
Additional Legal Fees	Component Description: Amount:	GMP 31422 v191209jgv1 \$1,195.99
	Component Description: Amount:	additional attorney fees \$50.50
	Component Description: Amount:	GMP 31038 v191209jgv1 \$70.00
	Component Description: Amount:	additional attorne fees \$112.00
	Component Description: Amount:	additional attorney fees \$207.00
	Component Description: Amount:	GMP 31227 v191209jgv1 \$703.50

Component Description: Amount:	additional attorney fees \$50.50
Component Description: Amount:	additional attorney fees \$50.50
Component Description: Amount:	additional attorney fees \$50.50
Component Description: Amount:	GMP 30653 v191209jgv1 \$202.00
Component Description: Amount:	GMP 26443 v191209jgv1 \$2,465.00
Component Description: Amount:	additional attorney fees \$151.50
Component Description: Amount:	additional attorney fees \$39.00
Component Description: Amount:	additional attorney fees \$50.50
Component Description: Amount:	additional attorney fees \$50.50

Component Description: Amount:	GMP 31812 v200423jgv1 \$117.00
Component Description:	GMP 31623
Amount:	v191209jgv1 \$1,732.50
Component Description:	GMP 26625
Amount:	v191209jgv1 \$167.50
Component Description:	additional attorney
Amount:	fees \$276.50
Component Description:	additional attorney
Amount:	fees \$105.00
Component Description:	GMP 26245
Amount:	v191209jgv1 \$296.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,933,404.93	\$3,958,192.93	\$2,545,073.82

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

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

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

I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s)Jeffrey C Gehman Engineering Associate	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.	
04/28/2020	an authorized representative of the above- named applicant for the Authorization(s)	Gehman Engineering Associate

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

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

	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
an aut name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Jeffrey C Gehman Engineering Associate
		04/28/2020

Attachments