

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

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Facility	65681	Service: DTV	Call	WTAE-TV	Channel: 27 (UHF)
ID:			Sign:		
File	000002	6711			
Number:					
FRN: 0001587583		Date	06/18		
		Submitted:	/2019		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
Hearst Stations Inc. Doing Business As: Hearst Stations Inc.	C/O BROOKS, PIERCE, ET. AL. P.O. BOX 1800 RALEIGH, NC 27602 United States	+1 (919) 839- 0300	mprak@brookspierce. com	Corporation

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information	Preparer Contact Name and Information				
	Applicant	Address	Phone	Email	
	The Preparer is same as the reimbursement contact.				

Broadcaster	Question	Response
Information		
and		
Transition		
Plan		

Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	See attached document

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

Primary	Existing Transmitter Infor	ting 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	Sigma		
		Year	1999		
		Туре	Inductive Output Tube		
		IOT Power Type	Two		
		Power Capacity	44 kW		

Existing Transmitter Information

Primary	New Transmitter Costs	nsmitter Costs			
Transmitter	Section	Question	Response		
	New Transmitter	Use	Primary (Main)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Manufacturer			
		Model	ULXTE-60		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	38 kW		
		Justification for New Transmitter	Existing IOT transmitter cannot be converted to post- transition channel, see GatesAir EOL and HTV IOT to Solid-State Justification statements. An IOT replacement is more expensive than proposed SS transmitter. See attached Comark IOT Transmitter quote.		

Primary	ther Transmitter Costs			
Transmitter	Section	Question	Response	
	Electrical Service	Service Entrance (3 phases 800A 208V)	No	
		Switchgear (industrial 800 amp)	No	
		Transformer (480V)	No	
		Power	No No	
		Rigid Conduit and Wiring	No	
		Size	N/A	
		Length	N/A	
		Other Electrical Service	Yes	
		Description	electrical	
	HVAC Service	Does the replacement transmitter require HVAC Service?	No	
		Туре	NoN/ANoN/AN/AN/AYestransmitter electrical installationNoN/AN/AN/AN/AYes2000.0 square feetN/AN/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?	Yes	
		Size		
	Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A	
		Is a channel 14 Mask Filer needed?	N/A	
		Is additional field engineering time needed?	N/A	
		Number of Days	N/A	

Other Transmitter Cost Not Listed

Primary Transmitter

Name	Description
Electrical Accessories	Surge Protection and transformer
Remote Control	transmitter remote control equipment
Change Order 3	additional required RF components
Shipping	Transmitter shipping
Change Order 1	8-pole filters, RF components, copper cooling lines
Transmitter de-install	Remove old transmitter
Change Order 2	RF impedance transformer
Change Order 5	pipe for transmitter test load (plumbing kit)
RF Accessories	Additional RF components required for transmitter operation and integration into current RF environment.
Change Order 4	additional installation supplies

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

Auxiliary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Auxiliary (Backup)	
		Description of Use	backup to main antenna	
		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	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Slotted Coaxial	
		Number of Stations Supported	N/A	
		Number of Panels	N/A	
		Design power capacity in use	N/A	
		Lower Limit	N/A	
		Upper Limit	N/A	
		Other Antenna Type	N/A	

ERP: (Effective Radiated Power)	207.0 kW
Manufacturer	
Model	TLP-16-I-C
Year	1999

Auxiliary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Auxiliary (Backup)	
		Description of Use	Interim/Aux	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	Yes	
		Will antenna be located on or in close proximity to an antenna farm?	No	
	New Antenna Manufacturer and Types	Class	Full Power	
		Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Broadband Slot	
		Number of Stations Supported	1	
		Number of Panels/Bays	16	
		Lower Limit	470.00 MHz	
		Upper Limit	608.00 MHz	
		Design power capacity in use	57.8 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	628.0 kW	
		Manufacturer		
		Model	TFU-16WB	

Year	2018
Justification for New Antenna	Current auxiliary antenna is channel specific. The TFU- 16WB is a broadband antenna that can be used for both pre and post transition channels facilitating a smooth and on-time transition to new channel.

Other Antenna Costs

Auxiliary

Julei	AIII	enna	CU313

Antenna	
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Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches inches

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

Other Antenna Cost Not Listed

Auxiliary Antenna

NameDescriptionShippingAntenna shippingImpedence Transformer50 ohm to 75 ohm transformerSales Taxantenna sales tax

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?	No	
	Existing 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	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	TFU- 30DSC-R CT150
Year	2004

Primary	New Antenna Costs			
Antenna	Section	Question	Response	
	New Antenna Description	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Ownership	Owned	
		Owner	N/A	
		Is antenna shared?	No	
		Is antenna directional?	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	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)	628.0 kW	
		Manufacturer		
			1	

Model	TFU- 24JSC-R CT150
Year	2019
Justification for New Antenna	Current antenna is channel specific (51) and cannot be used on post- transition channel (27). Must be replace

Primary Other Antenna Costs

Co An Elt	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
		Frequency	N/A
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
		Broadband or Single Channel?	Single Channel
		Feed Line Size	6 1/8 inches inches
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes

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

Primary Antenna

Name	Description
Feed Through Components	Line sections & elbows
Sales Tax	antenna sales tax
Shipping	Antenna shipping

Other Antenna Cost Not Listed

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

Existing Transmission Line Primary Existing Transmission

nissio	n Line 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 Transmission Line Manufacturer and Type	Is the existing transmission line shared with another station or stations?	No	
	Is Transmission Line in operating condition?	Yes	
	Manufacturer	Dielectric	
	Туре	Rigid	
	Diameter	6 1/8 inches	
		Other Diameter	N/A
		Segment Length	20 inches
	Other Segment Length	N/A	
		Number of parallel runs	1
		Length	1030 feet per run

Primary Other Transmission Line Expenses Not Listed

Transmissio	Name	Description
	Line refurbish	parts to refurbish line to work properly with new channel
	Line sweep	transmission line sweep to check operation on repack channel
	Shipping	shipping of transmission line cut pieces and additional components
	Additional Line Components	additional transmission line components needed

ransmissio	Section	Question	Response
Existing Transmissi Line Description	Existing Transmission Line Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	Backup
		Ownership	Owned
Existing Transmission Line Manufacturer and Type		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
	-	Manufacturer	
		Туре	Rigid
		Diameter	3 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	880 feet per run

Auxiliary Existing Transmission Line

Auxiliary New Transmission Line Transmission Line

Question	Response
Use	Auxiliary (Backup)
Description of Use	Interim /Auxiliary
Change Type	Purchase New
Is this a request for upgraded equipment?	No
Туре	Rigid
Diameter	6 1/8 inches
Other Diameter	N/A
Segment Length	Broadband
Other Segment Length	N/A
Number of parallel runs	1
Length	880 feet per run
	UseDescription of UseChange TypeIs this a request for upgraded equipment?TypeDiameterOther DiameterSegment LengthOther Segment LengthNumber of parallel runs

Justification for New Transmission Line	The current auxiliary line must
	be replaced
	with a line
	capable of
	handling
	higher
	power
	since
	station will
	be
	operating
	for
	extended
	time on
	auxiliary
	antenna on
	both pre
	and post
	transition
	channels.
	This helps
	ensure a
	smooth and
	on-time
	transition.

Other Transmission Line Expenses Not Listed Transmission Line Description

Sales Tax	transmission line sales tax
Shipping	shipping for transmission line components

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

marv	Existing	Tower
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Primary	Existing Tower					
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?	No			
		One or more FM, AM or TV radio broadcaster(s)	N/A			
		Others Types of Users	N/A			
		Is tower documented for structural analysis?	Yes			
		Is tower compliant with Rev G?	Unknown			
	Existing Tower Structure	Do you have a tower registration number?	Yes			
	Registration	ASR Number	1025144			
	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	40° 16' 49.0" N-			
	1983))	Longitude (NAD83)	079° 48' 10.0" W-			
		Overall Structure Height	1062.98 feet			
		Support Structure Height	892.38 feet			
		Ground Elevation Above Mean Sea Level (AMSL)	982.93 feet			

	Structure Type	TOWER - Free Standing or Guyed Structure
-	Tower Owner	Hearst Stations Inc.
	Date Constructed	08/07/1958

Tower Modification Costs

Primary Tower

Tower

Tower

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:	Minor Reinforcements needed

Primary Tower Rigging Costs

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

Primary Other Tower Expenses Not Listed

Name	Description	
Road Repair	repair damage to road due to heavy equipment	
Tower Consulting	tower consulting and tower project management	

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	200
		Explanation	Additional RF experience needed
	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	Prepare and file Form FCC Construction Permit Application	Yes
	Services	For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare and file Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes

	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	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	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional	Other Professional Services Expenses Not Listed			
	Services Costs	Description		
	Transmitter Site Survey	Transmitter planning survey & transmitter building drawings		
	Non-Catalog legal expenses	Non-Catalog expenses for legal advice and services, including financial/reimbursement review, transition reporting, transition procedures, and other transition-related issues		

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	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	Yes
		FCC License to Cover Application	Yes
		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)?	No
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	No
		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 Expenses	Other Expenses Not Listed				
	Name	Description			
	Contract labor	labor directly related to the station channel change			

Transmitters

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-60	\$1,832,574.22	\$1,359,272.66		\$1,359,272.66	
Change Order 3	\$3,388.32	\$3,388.32	required RF components	\$3,388.32	N/A
Other Building Addition Size: 2000.0	\$3,860.00	\$3,860.00	Modifications needed for installation of repack transmitter	\$3,860.00	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$999,698.44	GatesAir quote sections A, B & E. This is the transmitter, mask filter, installation and proof per the FCC "transmitter" definition.	\$999,698.44	999,698.44
Other Electrical Service: transmitter electrical installation	\$194,186.77	\$194,186.77	transmitter electrical installation per quotes and change orders	\$194,186.77	Sub-total and estimate are identical. \$194,186.77
Change Order 4	\$470.64	\$470.64	installation supplies	\$470.64	N/A
Change Order 5	\$2,786.23	\$2,786.23	plumbing kit for transmitter test load	\$2,786.23	N/A

RF Accessories	\$76,222.30	\$76,222.30	Additional RF components required for transmitter operation and integration into current RF environment.	\$76,222.30	N/A
Transmitter de-install	\$22,128.40	\$22,128.40	removal of current transmitter to make space for replacement	\$22,128.40	N/A
Change Order 2	\$1,126.25	\$1,126.25	RF impedance transformer	\$1,126.25	N/A
Change Order 1	\$14,888.21	\$14,888.21	required transmitter components	\$14,888.21	N/A
Remote Control	\$9,097.41	\$9,097.41	Equipment needed to remotely control repack transmitter	\$9,097.41	N/A
Electrical Accessories	\$10,415.29	\$10,415.29	Manufacturer required electrical components	\$10,415.29	N/A
Shipping	\$16,404.40	\$16,404.40	Transmitter shipping	\$16,404.40	N/A

Other Electrical Service: transmitter installation electrical service	\$4,600.00	\$4,600.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***required transmitter installation electrical service per attached quotes	\$4,600.00	N/A
Sub-total	\$1,832,574.22	\$1,359,272.66	N/A	\$1,359,272.66	N/A
Total for all systems	\$3,142,506.34	\$2,526,762.60	N/A	\$2,293,629.34	N/A

Components

Actual Information Description	File Name	
Change Order 3		
	Component Description:	WTAE transmitter
		CO 3
	Amount:	\$3,388.32
Other Building Addition Size: 2000.0		
SIZE. 2000.0	Component Description:	WTAE transmitter
		room modifications
	Amount:	\$3,860.00

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description: Amount:	Transmitter 2nd deposit \$215,264.19
	Component Description: Amount:	Transmitter 1st deposit \$118,742.08
	Component Description: Amount:	WTAE transmitter one-third prior to ship \$374,450.85
	Component Description: Amount:	WTAE transmitter \$231,479.67
	Component Description: Amount:	WTAE transmitter installation \$59,761.65

transmitter electrical		
installation	Component Description:	WTAE additional
		transmitter
	A	electrical
	Amount:	\$3,784.77
	Component Description:	WTAE transmitte
		installation
	A	electrical 1
	Amount:	\$103,020.00
	Component Description:	WTAE transmitte
		electrical
	Amount:	installation 3 \$8,585.00
	Amount.	ψ0,303.00
	Component Description:	WTAE transmitte
		installation electrical CO1
	Amount:	\$18,702.00
		¥ 10,1 02.00
	Component Description:	WTAE transmitte
		installation
	Amount:	electrical 2
	Amount.	\$60,095.00
Change Order 4		
	Component Description:	WTAE transmitte CO 4
	Amount:	\$470.64
Change Order 5	Component Description:	WTAE transmitte
		change order 5
	Amount:	\$2,786.23

	Component Description:	WTAE transmitter RF accessories
	Amount:	\$76,222.30
Transmitter de-install		
	Component Description:	WTAE transmitter
	Amount:	de-install \$22,128.40
Change Order 2		
	Component Description:	WTAE transmitter
	Amount:	CO 2 \$1,126.25
Change Order 1		
	Component Description:	WTAE transmitter
	Amount:	CO 1 \$14,888.21
Remote Control	Component Description:	WTAE transmitter remote control \$9,097.41
	Amount.	\$9,097.41
Electrical Accessories	Component Description:	WTAE transmitter
	Amount:	electrical \$10,415.29
	Amount.	φτυ,4το.29
Shipping		
	Component Description:	WTAE transmitter shipping 2
	Amount:	\$2,710.75
	Component Description:	WTAE transmitter

Other Electrical Service: transmitter installation electrical service	Component Description:	WTAE preliminary electrical work for transmitter
		replacement
	Amount:	\$4,600.00

Antennas

Cost Information

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

Description Primary	Predetermined Cost Estimate \$216,782.00	Estimated Cost \$207,725.00	Estimated Cost Justification	Actual Cost \$194,044.00	Actual Cost Justification
Antenna TFU-24JSC- R CT150	·	,		••••	
UHF - High Power, Side Mount, basic slot antenna, 628 kW input, directional,, horizontally polarized	\$144,825.00	\$144,825.00	antenna cost per attached Dielectric quote	\$183,024.00	Progress payments and accessories not itemized.
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	N/A	\$0.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$16,425.00	N/A	\$0.00	N/A

Shipping	\$4,620.00	\$4,620.00	shipping per Dielectric quote	\$4,620.00	N/A
Sales Tax	\$13,464.00	\$13,464.00	estimated antenna sales tax based on Pennsylvania state and local sales tax rate of 7%	N/A	N/A
Feed Through Components	\$11,693.00	\$11,693.00	additional RF components required for antenna installation per attached Dielectric quote	\$0.00	N/A
Auxiliary Antenna TFU-16WB	\$166,718.00	\$141,508.00		\$135,408.32	
Sales Tax	\$9,228.00	\$9,228.00	estimated antenna sales tax based on Pennsylvania state and local sales tax rate of 7%	N/A	N/A
Impedence Transformer	\$3,685.00	\$3,685.00	transformer to match antenna to transmission line	\$0.00	Rounding Error for the difference in cost.
Shipping	\$4,175.00	\$4,175.00	shipping per attached	\$3,029.48	N/A

Sub-total Total for all systems	\$383,500.00 \$3,142,506.34	\$349,233.00 \$2,526,762.60	N/A N/A	\$329,452.32 \$2,293,629.34	N/A N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	N/A	\$0.00	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$11,970.00	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 628 kW input, directional,, horizontally polarized	\$106,050.00	\$106,050.00	antenna price per attached Dielectric quote	\$125,978.84	Progress payments - accessories not itemized

Actual Information	
Description	File Name

UHF - High Power, Side Mount, basic slot antenna, 628 kW input, directional,, horizontally polarized	Component Description:	WTAE Dielectric Main Antenna 9.13.2017; \$91,512 payments 1&2 -
	Amount:	45% \$91,512.00
	Component Description:	WTAE Dielectric Main antenna payment 3 - 45%; \$91,512
	Amount:	\$91,512.00
	Component Description:	WTAE: Reimbursement request withdrawn
	Amount:	N/A
Sweep test of existing antenna	Component Description:	WTAE main
	Amount:	antenna sweep \$6,400.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Shipping	Component Description	WTAE main
	Component Description: Amount:	wirze main antenna shipping \$4,620.00
Sales Tax	Information not provided.	
Feed Through Components	Information not provided.	
Sales Tax	Information not provided.	

Impedence Transformer	Information not provided.	
Shipping		
	Component Description:	WTAE aux antenr
		shipping
	Amount:	\$3,029.48
UHF - High Power, Side		
Mount, basic slot antenna,		
16 bay,, 628 kW input,	Component Description:	WTAE Dielectric
directional,, horizontally		Auxiliary Antenna
polarized		payment 3 - 45%;
•		9.13.2017;
		\$62,989.42
	Amount:	\$62,989.42
	Component Description:	WTAE Dielectric
	component Description.	Auxiliary Antenna
		payments 1&2 -
		45%; 9.13.2017;
		\$62,989.42
	Amount:	\$62,989.42
Sweep test of existing antenna	Component Description:	WTAE auxiliary
	component Description.	antenna and line
	Amount:	sweep \$6,400.00
	Amount.	\$0,400.00
Elbow complex,	Information not provided.	
broadband, at antenna		
input, per 6 1/8. feedline (if		
needed)		
Side mount brackets for	Information not provided.	
high power antennas (if not		
included in antenna base		
cost)		

Transmission Line

Cost Information

Description Primary Transmission Line	Predetermined Cost Estimate \$30,500.00	Estimated Cost \$30,500.00	Estimated Cost Justification	Actual Cost \$15,226.11	Actual Cost Justification
Line refurbish	\$9,100.00	\$9,100.00	required transmission line parts	\$0.00	N/A
Line sweep	\$6,400.00	\$6,400.00	standard line sweep cost	\$2,866.13	N/A
Shipping	\$2,000.00	\$2,000.00	shipping for transmission line cut sections and other transmission line components	\$388.65	N/A
Additional Line Components	\$13,000.00	\$13,000.00	Additional transmission line parts needed for project	\$11,971.33	N/A
Auxiliary Transmission Line	\$216,804.00	\$177,611.39		\$165,225.80	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$204,160.00	\$164,967.39	price per Dielectric quotes and invoices	\$164,967.39	N/A

0-l T					
Sales Tax	\$10,644.00	\$10,644.00	estimated sales tax based on Pennsylvania state and local sales tax rate of 7%	\$0.00	N/A
Shipping	\$2,000.00	\$2,000.00	shipping for transmission line cut sections and other transmission line components	\$258.41	N/A
Sub-total	\$247,304.00	\$208,111.39	N/A	\$180,451.91	N/A
Total for all systems	\$3,142,506.34	\$2,526,762.60	N/A	\$2,293,629.34	N/A

Actual Information Description	File Name	
Line refurbish		
	Component Description:	WTAE transmission line refurbish parts
	Amount:	\$9,100.00
	Component Description:	Station reimbursed
		for non-
		reimbursable expense
		(transmission line
		refurbish)
	Amount:	(\$9,100.00)

ine sweep.		
	Component Description:	WTAE transmission line
		sweep
	Amount:	\$2,866.13
Shipping		
	Component Description:	WTAE shipping for
		transmission line
		part 2
	Amount:	\$360.45
	Component Description:	WTAE shipping for
		transmission line
	Amount:	part \$28.20
		Ψ20.20
Additional Line Components		
	Component Description:	WTAE additional
		transmission line
		parts 1
	Amount:	\$9,232.00
	Component Description:	WTAE additional
		transmission line parts 2
	Amount:	\$349.53
		ψυτυ.υυ
	Component Description:	WTAE additional
		transmission line
		parts 3

Rigid Transmission Line - copper, 6 1/8" broadband	Component Description:	WTAE additional
	Component Description.	aux transmission
		line pieces
	Amount:	\$12,587.43
	Component Description:	WTAE auxiliary transmission line
	Amount:	\$6,184.76
	Component Description:	WTAE Dielectric
		Aux transmission
		line; payment 3 -
		45%; \$68,425.25
	Amount:	\$68,425.25
	Component Description:	WTAE
		transmission line
		cut piece with
		shipping
	Amount:	\$5,707.90
	Component Description:	WTAE additional
		transmission line
		cut pieces
	Amount:	\$3,636.80
	Component Description:	WTAE Dielectric
		Aux Transmission
		Line; payment 3 -
		45%; \$68,425.25
	Amount:	\$68,425.25
Sales Tax	Information not provided.	
Shipping		
	Component Description:	WTAE shipping for
	Amount:	aux 1/L piece \$258.41
	Amount:	aux T/L piece \$258.41

Tower Equipment and Rigging Costs

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$395,280.00	\$321,845.68		\$318,483.68	
Minor tower reinforcement /modifications	\$158,000.00	\$0.00	N/A	\$0.00	N/A
Road Repair	\$6,680.00	\$6,680.00	see associated invoice	\$6,680.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$293,915.68	Antenna replacements. See attached quote "WTAE Coast to Coast Tower Agreement Complete 18- 04-18.pdf" and Change Order invoice	\$293,915.68	N/A
Tower Consulting	\$7,500.00	\$7,500.00	tower consulting and tower project management - quote attached	\$4,138.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$13,750.00	See quotes	\$13,750.00	N/A
Sub-total	\$395,280.00	\$321,845.68	N/A	\$318,483.68	N/A

Total for all	\$3,142,506.34	\$2,526,762.60	N/A	\$2,293,629.34	N/A
systems					

Actual Information Description	File Name	
Minor tower reinforcement /modifications	Information not provided.	
Road Repair	Component Description: Amount:	WTAE tower site road repair \$6,680.00
Tall Tower (greater than 500')	Component Description: Amount:	WTAE tower work progress payment \$90,000.00
	Component Description: Amount:	WTAE tower work change order 1 \$31,640.68
	Component Description: Amount:	WTAE tower work progress payment 3 \$30,000.00
	Component Description: Amount:	WTAE tower work progress payment 2 \$50,000.00
	Component Description:	WTAE tower work invoice 1 (see quote page 14)
	Amount:	\$92,275.00

Tower Consulting		
	Component Description:	WXII tower project
		management 2
	Amount:	\$100.00
	Component Description:	WTAE: Tower consulting invoice 1
	Amount:	\$4,038.00
Structural engineering tower load study for well documented tower	Component Description:	WTAE tower rigorous analysis
	Amount:	\$6,500.00
	Component Description:	WTAE tower engineering evaluation 2
	Amount:	\$3,625.00
	Component Description:	WTAE tower engineering
		evaluation 1
	Amount:	\$3,625.00

Outside Professional Services

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual C Justifica
Outside Professional Services	\$223,227.00	\$231,278.75		\$94,158.51	
Non-Catalog legal expenses	\$20,000.00	\$20,000.00	Non-Catalog expenses for legal advice and services, including financial /reimbursement review, transition reporting, transition procedures, and other transition- related issues	\$6,568.72	N/A
Transmitter Site Survey	\$22,042.00	\$22,042.00	Transmitter planning survey & transmitter building drawings quote attached	\$22,042.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit	\$5,260.00	\$5,000.00	N/A	\$1,984.23	
Application Prepare request for Special Temporary Authorization	\$4,100.00	\$1,500.00	N/A	\$1,062.50	
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	\$100.00	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	\$837.50	

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,025.00	N/#
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,262.50	N/J
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$1,382.46	N/
Project management of the transition	\$31,600.00	\$52,986.75	see Kube Broadcast Consulting invoices	\$52,985.60	N/
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/J
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$3,500.00	N/A	\$658.00	N//

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
Sub-total	\$223,227.00	\$231,278.75	N/A	\$94,158.51	N/A
Total for all systems	\$3,142,506.34	\$2,526,762.60	N/A	\$2,293,629.34	N/A

Actual Information Description	File Name	
Non-Catalog legal expenses	Component Description: Amount:	WTAE non-catalog legal 2 \$3,690.02
	Component Description: Amount:	WTAE non-catalog legal 1 \$2,878.70
Transmitter Site Survey		
	Component Description: Amount:	WTAE Field Service, GatesAir 6 /30/2016 \$22,042 \$22,042.00
RF Exposure Measurements	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description:	WTAE Prepare and File FCC Form 2100, Construction
	Amount:	Permit Application \$1,054.53
	Component Description:	WTAE Prepare and File FCC Form 2100, Construction
	Amount:	Permit Application \$929.70
Prepare request for Special		
Temporary Authorization	Component Description:	WTAE RF consulting for interim antenna STA 2
	Amount:	\$250.00
	Component Description:	WTAE RF consulting for interim antenna STA 1
	Amount:	\$812.50
RF Consulting Engineer		
Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover	Component Description:	WTAE RF consulting auxiliary antenna license to
Application	Amount:	cover \$100.00
Prepare engineering section of FCC Form 2100		
(main), License to Cover	Component Description:	WTAE engineering for license to cover
Application	Amount:	\$250.00

Fees- Aux Antenna: Prepare engineering section of FCC Form 2100,	Component Description:	WTAE engineerin for auxiliary antenna
Construction Permit Application	Amount:	construction perm \$837.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit	Component Description:	WTAE CP
Application	Amount:	engineering prep \$2,025.00
Perform engineering study for new channel		
assignment and antenna	Component Description:	WTAE engineerin study 1
development	Amount:	\$1,312.50
	Component Description:	WTAE engineerin study 3
	Amount:	\$825.00
	Component Description:	WTAE engineerin
	Amount:	study 2 \$2,125.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Prepare and or review reimbursement form	Component Description:	WTAE Prepare and /or review reimbursement
	Amount:	Form 399 \$1,082.40
	Component Description:	WTAE Prepare and /or review reimbursement Form 399-2 \$300.06
		<i>4000.00</i>
Project management of the transition	Component Description: Amount:	WTAE Kube 5 \$3,746.63
	Component Description: Amount:	WTAE Kube 7 \$35,720.47
	Component Description: Amount:	WTAE Kube 1 \$375.00
	Component Description: Amount:	WTAE Kube 3 \$2,347.94
	Component Description: Amount:	WTAE Kube 4 \$75.00
	Component Description: Amount:	WTAE Kube 6 \$10,645.56
	Component Description: Amount:	WTAE Kube 2 \$75.00

Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount:	WTAE Prepare and File request for Special Temporary Authorization \$658.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	

Other Expenses

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$60,621.12	\$57,021.12		\$11,810.26	
Contract labor	\$4,209.46	\$4,209.46	accounting labor directly related to the Spectrum Repack project	\$4,209.46	N/A
MVPD Notification of Channel Change	\$3,207.20	\$3,207.20	Cost per DTV Notification quote	\$3,207.20	N/A
Develop and air announcement of upcoming channel change	\$2,500.00	\$2,500.00	Attorney review to ensure FCC compliance	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$8,000.00	N/A	\$4,393.60	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Local Zoning	\$3,000.00	\$3,000.00	need quote	N/A	N/A

Sub-total Total for all	\$60,621.12 \$3,142,506.34	\$57,021.12 \$2,526,762.60	N/A N/A	\$11,810.26 \$2,293,629.34	N/A N/A
			invoice		
			superseded. ***per		
			been		
			line has		
			because		
			and locked		
			adjusted		
			Estimate		
			Notice:		
in house labor	\$4,209.46	\$4,209.46	***System	\$0.00	N/A
			document.		
			Dielectric		
			attached		
			See		
			storage.		
-			of antenna		
Equipment Storage	\$30,500.00	\$30,500.00	Estimate for 1 year	N/A	N/A

Actual Information Description	File Name	
Contract labor	Component Description: Amount:	WTAE accounting labor \$4,209.46
MVPD Notification of Channel Change	Component Description: Amount:	WTAE MVPD notification \$3,207.20
Develop and air announcement of upcoming channel change	Information not provided.	

DTV Medical Facility Notification	Component Description: Amount:	WTAE medical notification \$4,393.60
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
Local Zoning	Information not provided.	
Equipment Storage	Information not provided.	
in house labor		
	Component Description:	WTAE in house labor 1
	Amount:	\$4,209.46

Cost Information	Grand Total				
		Predetermined Cost Estimate	Estimated Cost	Actual Cost	
	Total for all systems	\$3,142,506.34	\$2,526,762.60	\$2,293,629.34	

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

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

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

 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 perj an authorized representative o named applicant for the Author specified above.	f the above- Hearst

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.

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.	Douglas Durkee Hearst Television Manager of Spectrum Repack
	06/18/2019

Attachments