

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 61216	Service: DTV	Call	WHIZ-TV	Channel: 30 (UHF)
ID:		Sign:		
File 000	027921			
Number:				
FRN: 00322724	2 Date	11/12		
	Submitted:	/2019		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
SOUTHEASTERN OHIO TELEVISION SYSTEM Doing Business As: SOUTHEASTERN OHIO TELEVISION SYSTEM	Henry C Littick 629 Downard Road Zanesville, OH 43701 United States	+1 (740) 452- 5431	hlittick@whizmediagroup. com	General Partnership

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
	Kevin J Buente Chief Engineer Southeastern Ohio Television System	Kevin Buente 629 Downard Road Zanesville, OH 43701 United States	+1 (740) 452-5431	kbuente@whizmediagroup. 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.	No
	Briefly describe transition plan	Install new Tx, and interim antenna. Switch over to interim antenna with existing Tx. Install new top mount antenna, plumb RF to new antenna. Test.

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

Fransmitter	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 CD
		Year	2001
		Туре	Inductive Output Tube
		IOT Power Type	Two
		Power Capacity	50 kW

Primary Add 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?	No
		Manufacturer	
		Model	ULXTE-40
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
		Solid State Power capacity	25.3 kW
		Justification for New Transmitter	Gates Air unable to retune old IOT transmitter.

Primary Other Transmitter Costs

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

HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

imany Other Transmitter Cost Not Listed

Primary Transmitter

Name	Description
RF Test Load	40kW broadband UHF Testing Load
Mask Filter	40kW UHF, 6-Sections, 3db Ybrid, Channel 30
Estimated Tax	Тах
Estimated Shipping	Shipping
Installation and Proof	Install and Proof of Performance of new transmitter system.

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

Primary Antenna	Existing Antenna Information			
	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	Broadband Panel	
		Number of Stations Supported	1	
		Number of Panels	40	
		Design power capacity in use	100.0 %	
		Lower Limit	479.00 MHz	
		Upper Limit	632.00 MHz	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	620.0 kW	

Manufacturer	
Model	TFU-O4-10 /40H-1-T
 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?	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	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)	506.0 kW	
		Manufacturer		

Model	ATW16H2- ETOX-30H
Year	2019
Justification for New Antenna	Existing antenna can not meet pattern requirements of assigned channel.

Primary Other Antenna Costs

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?	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?	
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
AntennaOther Antenna Cost Not ListedInformation 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	Elliptical	
		Туре	Broadband Panel	
		Number of Stations Supported	1	
		Number of Panels/Bays	16	
		Lower Limit	470.00 MHz	
		Upper Limit	700.00 MHz	
		Design power capacity in use	95.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	500.0 kW	
		Manufacturer		
		Model	230ECN-16- 30/40	
		Year	2019	

Justification for New Antenna	Move ch.4
	over to
	interim
	antenna to
	replace
	current top
	mount
	antenna
	with new c
	30 top
	mount
	antenna.

Other Antenna Costs

Interim Antenna

Section	Question	Response
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 an 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?	No

InterimOther Antenna Cost Not ListedAntennaInformation 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

smissio	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		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	-	Manufacturer	Dielectric
	Line Manufacturer and Type	Туре	Rigid
		Diameter	7 3/16 inches
		Other Diameter	N/A
		Segment Length	Broadband
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	585 feet per run

Other Transmission Line Expenses Not Listed Primary Transmission Line Description

Line Sw	eep and Tune	Tune Elbow Complexes to correct Channel

Interim New Transmission Line

ransmissio	n Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Flexible Air
		Diameter	5 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
		Length	491 feet per run
		Justification for New Transmission Line	Provide RF to interim aux antenna that is being rented.

Interim	Other Transmission Line Expenses Not Listed		
Transmissio	nLine	Description	
	EIA Flanges	6-1/8 in EIA Fe	

EIA Flanges	6-1/8 in EIA Female Flange with gas barrier for 5-inch air HELIAX (HJ9-series).
Ground Kit	Grounding kit, qty. 1, 24-inch cable with 1- hole factory attached lug for 5-inch coax
Hoisting Grip	Hoisting Grip for 5-inch coaxial cables

threaded rod kit	3/8-inch threaded rod kit. Includes qty 5 24- inch rod, ceiling mounting plate, nuts /washers for use with EWG or HELIAX.
threaded rod kit	3/8-inch threaded rod kit. Includes qty 5 12- inch rod, ceiling mounting plate, nuts /washers for use with EWG or HELIAX.
Half inch hardware	1/2-inch hardware, kit of 10, with 1-1/4-inch fillister-head bolts, lock washers and nuts.
Hoisting Grip Kit	Hoisting grip hanger kit to attach HELIAX hoisting grips to tower. Includes 18-inches of chain, 12-inch x 12-inch turnbuckle, and two shackles. One required for each hoisting grip and one hoisting grip required for each 200-feet of vertical run
Round member adapter	Round member adapter for 4 to 5-inch round members. Kit of 10. Stainless steel clamps to mount 1/2 to 4-inch cable hangers to round support members. Two each are required for 3 and 4-inch cable hangers.
Standard Hangers	Standard hangers, kit of 10, for 5-inch coaxial cable and EW20 HELIAX waveguide
Wall Feed Through	Wall/Roof Feed Thru, Single Entrance, for 5- inch cable

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

Existing Tower

Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	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?	No	
	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1232923	
	Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 55' 42.0" N-	
		Longitude (NAD83)	081° 59' 07.0" W-	
		Overall Structure Height	502.95 feet	
		Support Structure Height	459.97 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	908.13 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Southeastern Ohio Television System
Date Constructed	06/19/2002

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
183304	WZVL	FM

Primary 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:	Serious Reinforcement needed

Primary Tower Rigging Costs

Tower

Tower

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

Primary
TowerOther Tower Expenses Not ListedInformation not provided.

Outside	Section	Question	Response
Professional Services Costs Outside Project Management Services	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	595
		Explanation	WHIZ-TV requires the aid of outside project management services in order to fulfill the requirements of the repack. WHIZ-TV does not have sufficient resource capacity and expertise in house to handle all of the reimbursement repack tasks.
	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	No
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A

Outside	Other Professional Services Expenses Not Listed		
Professional	Services Costs	Description	
	DowTherm Removal	Coolant for existing transmitter has to be properly disposed of.	

e Expanses Not Listed . . . - 1 • _

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	No
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	No
		FCC Special Temporary Authority Application	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?	No
		Does this relocation require Equipment Storage?	No
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses Not Listed

Expenses Information not provided.

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-40	\$1,192,282.54	\$909,230.43		\$601,335.94	
Installation and Proof	\$64,540.15	\$64,540.15	N/A	\$42,596.48	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$680,220.65	per GatesAir quote Q- 80140 and Justifying Change Order - WHIZ GatesAir Q- 82321	\$450,189.54	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$9,277.24	N/A	\$6,122.96	N/A
RF Test Load	\$19,242.04	\$19,242.04	N/A	\$12,699.74	N/A
Mask Filter	\$135,950.35	\$135,950.35	N/A	\$89,727.22	N/A
Estimated Tax	\$0.00	\$0.00	N/A	N/A	N/A
Estimated Shipping	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$1,192,282.54	\$909,230.43	N/A	\$601,335.94	N/A
Total for all systems	\$3,182,839.58	\$1,984,623.78	N/A	\$904,882.49	N/A

Components

Actual Information Description	File Name	
Installation and Proof		
	Component Description:	WHIZ-110-1st Primary Transmitter - Installation and Proof
	Amount:	\$21,298.24
	Component Description:	WHIZ-110-1st Primary Transmitter - Installation and Proof
	Amount:	\$21,298.24
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	Component Description:	Mount new panel
	Component Description.	tub to wall near main switchgear.
	Amount:	\$4,162.18
	Component Description:	ULXTE-40 Transmitter
	Amount:	\$221,554.56
	Component Description:	"A. Transmitter B. Mask Filter System C. RF Test Load D. Electrical E. Installation &
	Amount:	Proof" \$224,472.80

Transformer 3 phase/480v - 150 KVA	Component Description:	WHIZ-110-1st Primary Transmitter - Transformer 3- phase/480v - 150 KVA
	Amount:	\$3,061.48
	Component Description:	WHIZ-110-1st Primary Transmitter - Transformer 3- phase/480v - 150 KVA
	Amount:	\$3,061.48
RF Test Load		
	Component Description:	WHIZ-110-1st Primary Transmitter - RF Test Load
	Amount:	\$6,349.87
	Component Description:	WHIZ-110-1st Primary
	Amount:	Transmitter - RF Test Load \$6,349.87

Mask Filter		
	Component Description:	WHIZ-110-1st
		Primary
		Transmitter -
		Mask Filter
	Amount:	\$44,863.61
	Component Description:	WHIZ-110-1st Primary
		Transmitter -
		Mask Filter
	Amount:	\$44,863.61
Estimated Tax	Information not provided.	
Estimated Shipping	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 Interim Antenna 230ECN-16- 30/40	Predetermined Cost Estimate \$187,852.04	Estimated Cost \$173,320.80	Estimated Cost Justification	Actual Cost \$173,320.80	Actual Cost Justification
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$8,618.76	Please see WHIZ-280- Interim Antenna - Side Mount Brackets Cost Increase Justification Cover Letter V.0	\$8,618.76	N/A
UHF - High Power, Side Mount, broadband panel, 16 bay,, 500 kW input, directional,, elliptically or circularly polarized	\$164,702.04	\$164,702.04	Please see WHIZ-280- Interim Antenna - UHF High Power Side Mount Direction, E- POL Cost Increase Justification Cover Letter V.0	\$164,702.04	N/A
Primary Antenna ATW16H2- ETOX-30H	\$296,230.00	\$287,750.00		\$85,638.00	

UHF - High Power Top Mount (200- 1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$281,500.00	N/A	\$85,638.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	N/A	N/A
Sub-total	\$484,082.04	\$461,070.80	N/A	\$258,958.80	N/A
Total for all systems	\$3,182,839.58	\$1,984,623.78	N/A	\$904,882.49	N/A

Components

Actual Information Description	File Name	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description: Amount:	WHIZ-280-Interim Antenna - Side Mount Brackets \$3,980.00
	Component Description: Amount:	WHIZ-280-Interim Antenna - Side Mount Brackets \$4,638.76
	Component Description:	50% deposit for side mounts for interim antenna.
	Amount:	\$3,980.00

UHF - High Power, Side Mount, broadband panel, 16 bay,, 500 kW input, directional,, elliptically or circularly polarized	Component Description: Amount:	Interim Antenna i230ECN-16-30/40 \$76,010.50
	Component Description: Amount:	Interim Antenna \$88,691.54
	Component Description: Amount:	50% Payment for interim antenna only listed in attachment "Antenna Quote Side.pdf" \$76,010.50
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Trasar Antenna \$42,819.00
	Component Description: Amount:	Trasar Antenna \$42,819.00
	Component Description:	30% deposit of top mount antenna.
	Amount:	\$51,441.00
Sweep test of existing antenna	Information not provided.	

Transmission Line

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$51,555.00	\$40,087.55		\$40,087.55	
threaded rod kit	\$0.00	\$0.00	N/A	\$0.00	N/A
Half inch hardware	\$0.00	\$0.00	N/A	\$0.00	N/A
Standard Hangers	\$0.00	\$0.00	N/A	\$0.00	N/A
Hoisting Grip	\$0.00	\$0.00	N/A	\$0.00	N/A
Flexible Air Transmission Line - dielectric, 5"	\$51,555.00	\$40,087.55	Please see WHIZ-380- Interim Transmission Line - 3" Flexible Air Cost Increase Justification Cover Letter V.0	\$40,087.55	N/A
Ground Kit	\$0.00	\$0.00	N/A	\$0.00	N/A
EIA Flanges	\$0.00	\$0.00	N/A	\$0.00	N/A
Hoisting Grip Kit	\$0.00	\$0.00	N/A	\$0.00	N/A
Round member adapter	\$0.00	\$0.00	N/A	\$0.00	N/A
Wall Feed Through	\$0.00	\$0.00	N/A	\$0.00	N/A

Primary Transmission Line	\$6,250.00	\$6,250.00		\$0.00	
Line Sweep and Tune	\$6,250.00	\$6,250.00	N/A	\$0.00	N/A
Sub-total	\$57,805.00	\$46,337.55	N/A	\$40,087.55	N/A
Total for all systems	\$3,182,839.58	\$1,984,623.78	N/A	\$904,882.49	N/A

Components

Actual Information Description	File Name	
threaded rod kit	Information not provided.	
Half inch hardware	Component Description: Amount:	50% Deposit \$345.76
Standard Hangers	Component Description: Amount:	50% Deposit \$481.75
Hoisting Grip	Information not provided.	
Flexible Air Transmission Line - dielectric, 5"	Component Description: Amount:	WHIZ-380-Interim Transmission Line - 3" Flexible Air \$18,479.23
	Component Description: Amount:	WHIZ-380-Interim Transmission Line - 3"" Flexible Air \$21,608.32
Ground Kit	Information not provided.	
EIA Flanges	Information not provided.	

Hoisting Grip Kit	Component Description: Amount:	50% Deposit \$225.00
Round member adapter	Component Description: Amount:	50% Deposit \$134.30
Wall Feed Through	Component Description: Amount:	50% Deposit \$137.50
Line Sweep and Tune	Information not provided.	

Tower Equipment and Rigging Costs

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$1,288,800.00	\$413,270.00		\$0.00	
Serious tower reinforcement /modifications	\$1,052,000.00	\$321,700.00	Please see WHIZ-TV Proposal 190426- 201 Worldwide Comm and WHIZ Proposal 190530-201	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$9,570.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$82,000.00	N/A	N/A	N/A
Sub-total	\$1,288,800.00	\$413,270.00	N/A	\$0.00	N/A
Total for all systems	\$3,182,839.58	\$1,984,623.78	N/A	\$904,882.49	N/A

Components

Information not provided.

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 Cost Justification
Outside Professional Services	\$127,625.00	\$129,225.00		\$4,500.20	
Project management of the transition	\$94,010.00	\$99,675.00	Please see Widelity Strategic Support proposal	\$4,500.20	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$0.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
DowTherm Removal	\$800.00	\$800.00	N/A	N/A	N/A

Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	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
Sub-total	\$127,625.00	\$129,225.00	N/A	\$4,500.20	N/A
Total for all systems	\$3,182,839.58	\$1,984,623.78	N/A	\$904,882.49	N/A

Components

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$4,500.20
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
DowTherm Removal	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare request for Special Temporary Authorization	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	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 Justification
Other Expenses	\$32,245.00	\$25,490.00		\$0.00	
DTV Medical Facility Notification	\$11,550.00	\$4,800.00	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
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$13,500.00	\$13,500.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Sub-total	\$32,245.00	\$25,490.00	N/A	\$0.00	N/A
Total for all systems	\$3,182,839.58	\$1,984,623.78	N/A	\$904,882.49	N/A

Components

Information not provided.

Cost Information	Grand Total					
		Predetermined Cost Estimate	Estimated Cost	Actual Cost		
	Total for all systems	\$3,182,839.58	\$1,984,623.78	\$904,882.49		

Reimbursem	enrestanus	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.

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.	Kevin J Buente , Buente . Chief Engineer 11/12/2019

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.	
an aut nameo	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Kevin J Buente , Buente . Chief Engineer 11/12/2019

Attachments

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