

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 61216 Service: DTV Call WHIZ-TV Channel: 30 (UHF)

ID: Sign:

File **0000027921**

Number:

FRN: **0032272452** Date **05/20**

Submitted: /2020

Applicant Information

Applicant Name, Type, and Contact 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 Contact Information

Preparer Contact Name and 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 Information and Transition Plan

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

Primary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	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 Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	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 Transmitter

Other Transmitter Costs

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

	Description	Labor and parts to supply power to WHIZ transmitter.
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

Primary Transmitter

Other Transmitter Cost Not Listed

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

Antennas

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

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

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	Class	Full Power
Manufacturer and Types	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.

Other Antenna Costs

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

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Type	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.40 over to interim
	antenna to
	replace
	current top
	mount
	antenna
	with new ch.
	30 top
	mount
	antenna.

Interim Antenna

Other Antenna Costs

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

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

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

Primary Transmission

Existing Transmission 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
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	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

Primary

Other Transmission Line Expenses Not Listed

Transmissio	n Laine	Description
	Line Sweep and Tune	Tune Elbow Complexes to correct Channel
	Rigid Transmission Line - Copper	Rigid transmission line piece to connect existing line to antenna

Interim Transmissio

New Transmission Line

section Section	Question	Response
New Transmission Line Costs	Use	Interim
	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

Transmission	ndine	Description
	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 Equipment And Rigging Costs

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

Primary Tower

Existing 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 Registration	Do you have a tower registration number?	Yes
	ASR Number	1232923
Coordinates (NAD83 (North American Datum	Latitude (NAD83)	39° 55' 42.0" N-
of 1983))	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

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 Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional

Section	Question	Response
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

Justification	N/A

Outside Professional

Other Professional Services Expenses Not Listed

l Services Costs	Description	
DowTherm Removal	Coolant for existing transmitter has to be properly disposed of.	

Other Expenses

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

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-40	\$1,237,161.86	\$1,049,734.56		\$1,049,469.32	
Estimated Tax	\$0.00	\$0.00	N/A	\$0.00	N/A
Estimated Shipping	\$0.00	\$0.00	N/A	\$0.00	N/A
Other Electrical Service: Labor and parts to supply power to WHIZ transmitter.	\$28,948.72	\$28,948.72	Please see WHIZ-TV Primary Transmitter - Electrical Revision Justification Cover Letter	\$28,948.72	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$9,949.83	per Estimated Cost Justification WHIZ-110- 1st Primary Transmitter - Transformer 3-phase /480v - 150 KVA v0	\$9,949.81	N/A

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$775,172.87	per Estimated Cost Justification WHIZ-110- 1st Primary Transmitter - UHF Liquid Cooled Solid State 21-31 kW v1	\$774,907.67	N/A
Installation and Proof	\$69,219.31	\$69,219.31	Estimated Cost Justification WHIZ-110- 1st Primary Transmitter - Installation and Proof v0	\$69,219.29	N/A
RF Test Load	\$20,637.08	\$20,637.08	Estimated Cost Justification WHIZ-110- 1st Primary Transmitter - RF Test Load v0	\$20,637.08	N/A
Mask Filter	\$145,806.75	\$145,806.75	Estimated Cost Justification WHIZ-110- 1st Primary Transmitter - Mask Filter v0	\$145,806.75	N/A
Sub-total	\$1,237,161.86	\$1,049,734.56	N/A	\$1,049,469.32	N/A
Total for all systems	\$3,296,178.01	\$2,196,162.04	N/A	\$1,856,568.38	N/A

Components

Actual Information		
Description	File Name	

Estimated Tax	Information not provided.	
Estimated Shipping	Information not provided.	
Other Electrical Service: Labor and parts to supply power to WHIZ transmitter.	Component Description: Amount:	Bill to date: Build and install \$19,493.16
	Component Description: Amount:	Cut in 6" hole through block for new transmitter \$9,455.56
Transformer 3 phase/480v - 150 KVA	Component Description:	WHIZ-110-1st
		Primary Transmitter - Transformer 3- phase/480v - 150 KVA
	Amount:	\$3,826.85
	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

Component Description: ULXTE-40

Transmitter \$240,912.75

Amount:

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 &
Proof"

Amount: \$224,472.80

Component Description: Mount new panel

tub to wall near main switchgear.

Amount: \$4,162.18

Component Description: 1 of: Shurflo 2088-

594-144 Industrial

Automatic

Amount: \$124.66

Component Description: 2 of: SHURFLO

2442356 Hose

Adapter

Amount: \$32.52

Component Description: ULXTE-40

Transmitter

Amount: \$70,640.45

	Component Description: Amount:	1 of: BestEquip 3T Prylever Bar \$107.99
	Component Description:	SITE SURVEY, ADVANCED TIER 2
	Amount:	\$13,164.93
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
	Component Description:	WHIZ-110-1st Primary Transmitter - Installation and Proof

Amount:

\$26,622.81

RF Test Load		
	Component Description:	WHIZ-110-1st
		Primary
		Transmitter - RF
		Test Load
	Amount:	\$7,937.34
	Component Description:	WHIZ-110-1st
		Primary
		Transmitter - RF
		Test Load
	Amount:	\$6,349.87
	Component Description:	WHIZ-110-1st
		Primary
		Transmitter - RF
		Test Load
	Amount:	\$6,349.87
Mask Filter		
	Component Description:	WHIZ-110-1st
		Primary
		Transmitter -
		Mask Filter
	Amount:	\$56,079.53
	Component Description:	WHIZ-110-1st
		Primary
		Transmitter -
	Amount:	Mask Filter
	Amount:	\$44,863.61
	Component Description	WHIZ-110-1st
	Component Description:	Primary
		Transmitter -
		n ransmitter - Mask Filter
	Amount:	\$44,863.61
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Cost Information

Antennas

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
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
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
Primary Antenna ATW16H2- ETOX-30H	\$296,230.00	\$287,750.00		\$157,268.69	
Sweep test of existing antenna	\$6,730.00	\$6,250.00	N/A	\$0.00	N/A

UHF - High Power Top Mount (200- 1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$281,500.00	N/A	\$157,268.69	N/A
Sub-total	\$484,082.04	\$461,070.80	N/A	\$330,589.49	N/A
Total for all systems	\$3,296,178.01	\$2,196,162.04	N/A	\$1,856,568.38	N/A

Components

Actual Information Description	File Name	
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:	50% Payment for interim antenna only listed in attachment "Antenna Quote Side.pdf" \$76,010.50
	Component Description: Amount:	Interim Antenna \$88,691.54

power antennas (if not included in antenna base cost)	Component Description: Amount:	WHIZ-280-Interim Antenna - Side Mount Brackets \$3,980.00
	Component Description:	50% deposit for side mounts for
	Amount:	interim antenna. \$3,980.00
	Component Description:	WHIZ-280-Interim Antenna - Side Mount Brackets
	Amount:	\$4,638.76
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: Amount:	ATW16H2-ETOX \$14,273.00
	Component Description: Amount:	Trasar Antenna \$42,819.00
	Component Description: Amount:	ATW16H2-ETOX \$57,357.69
	Component Description:	30% deposit of top mount
	Amount:	antenna. \$51,441.00
	Component Description: Amount:	Trasar Antenna \$42,819.00

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost
Interim Transmission Line	\$51,555.00	\$40,232.57		\$40,232.56	
Wall Feed Through	\$0.00	\$0.00	N/A	\$0.00	N/A
Standard Hangers	\$0.00	\$0.00	N/A	\$0.00	N/A
Round member adapter	\$0.00	\$0.00	N/A	\$0.00	N/A
Hoisting Grip Kit	\$0.00	\$0.00	N/A	\$0.00	N/A
Half inch hardware	\$0.00	\$0.00	N/A	\$0.00	N/A
threaded rod kit	\$0.00	\$0.00	N/A	\$0.00	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
Flexible Air Transmission Line - dielectric, 5"	\$51,555.00	\$40,232.57	see Estimated Cost Justification WHIZ-380- Interim Transmission Line - 3_ Flexible Air v1	\$40,232.56	N/A
Hoisting Grip	\$0.00	\$0.00	N/A	\$0.00	N/A
Primary Transmission Line	\$9,709.11	\$9,709.11		\$7,819.11	

Sub-total	\$61,264.11	\$49,941.68	N/A	\$48,051.67	N/A
			Justification WHIZ-310- Primary Transmission Line - Line Sweep and Tune v0		
Line Sweep and Tune	\$6,703.12	\$6,703.12	per Estimated Cost	\$6,703.12	N/A
Rigid Transmission Line - Copper	\$3,005.99	\$3,005.99	See attached WHIZ-TV Justification for Primary Transmission Line - Other Expenses - Dielectric invoice 696014	\$1,115.99	N/A

Components

Actual Information Description	File Name	
Wall Feed Through	Component Description: Amount:	50% Deposit \$137.50
Standard Hangers	Component Description: Amount:	50% Deposit \$481.75
Round member adapter	Component Description: Amount:	50% Deposit \$134.30

Hoisting Grip Kit		
	Component Description: Amount:	50% Deposit \$225.00
Half inch hardware		
	Component Description: Amount:	50% Deposit \$345.76
threaded rod kit	Information not provided.	
Ground Kit	Information not provided.	
EIA Flanges	Information not provided.	
Flexible Air Transmission Line - dielectric, 5"		
Line - dielectric, 3	Component Description: Amount:	Kit, Dehydrator \$145.01
	Amount.	ф145.01
	Component Description:	WHIZ-380-Interim
		Transmission Line
	Amount:	- 3" Flexible Air \$18,479.23
	Component Description:	WHIZ-380-Interim
		Transmission Line
	Amount:	- 3"" Flexible Air \$21,608.32
Hoisting Grip	Information not provided.	
Rigid Transmission Line -		
Copper	Component Description:	Other Freight and
	Amount:	Shipping \$1,115.99
Line Sweep and Tune	Occurrence of December 1	MUUT 040 D :
	Component Description:	WHIZ-310-Primary Transmission Line
		- Line Sweep and
	Amount:	Tune \$6,703.12
	Allouit	φο,7 σσ.12

Cost Information

Tower Equipment and Rigging Costs

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

December	Predetermined	Estimated	Estimated Cost	Actual Cost	Actual C
Description	Cost Estimate	Cost	Justification	Actual Cost	Justifica
Primary Tower TOWER	\$1,353,800.00	\$480,700.00		\$398,700.00	
Tower Helicopter Lift	\$65,000.00	\$65,000.00	Please see WHIZ Worldwide Communications Consultants Proposal 191029201	\$65,000.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$12,000.00	see Estimated Cost Justification WHIZ-410- Existing Primary Tower - Tower Mapping, Undocumented Tower v0	\$12,000.00	N/A
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	\$321,700.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$82,000.00	N/A	\$0.00	N/A
Sub-total	\$1,353,800.00	\$480,700.00	N/A	\$398,700.00	N/A
Total for all systems	\$3,296,178.01	\$2,196,162.04	N/A	\$1,856,568.38	N/A

Components

Actual Information Description	File Name	
Tower Helicopter Lift	Component Description: Amount:	Helicopter Cost \$65,000.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Component Description: Amount:	Tower Mapping \$12,000.00

Serious tower reinforcement modifications		
modifications	Component Description:	10% deposit -
		Tower
		modification
	Amount:	\$14,740.00
	Component Description:	65% deposit due
	Amount:	\$110,825.00
	Component Description:	Tower Service
		65% deposit of
		147,400.00
	Amount:	\$95,810.00
	Component Description:	Balance Due-
		Tower Service
	Amount:	\$36,850.00
	Component Description:	Design and
		Drawings
	Amount:	\$3,800.00
	Component Description:	Balance Due
	Amount:	\$42,625.00
	Component Description:	10% deposit
	Amount:	\$17,050.00
Tall Tower (greater than 500')	Information not provided.	

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$127,625.00	\$129,225.00		\$29,757.90	
DowTherm Removal	\$800.00	\$800.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$875.00	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$375.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$0.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A
Project management of the transition	\$94,010.00	\$99,675.00	Please see Widelity Strategic Support proposal	\$28,507.90	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	\$0.00	N/A
Sub-total	\$127,625.00	\$129,225.00	N/A	\$29,757.90	N/A
Total for all systems	\$3,296,178.01	\$2,196,162.04	N/A	\$1,856,568.38	N/A

Components

Actual Information Description	File Name	
DowTherm Removal	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.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description:	Technical portion of request for special temporary authority
	Amount:	\$875.00

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Technical portion of application for license to cover construction \$375.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

Project management of the transition

Component Description: Project

Management

Amount:

\$1,911.05

Component Description:

Project

Amount:

Management \$4,500.20

Component Description:

Project

Amount:

Management \$230.00

Component Description:

Project

Amount:

Management \$2,812.65

Component Description:

Project

Amount:

Management \$4,095.40

Component Description:

Project

Amount:

Management \$5,619.35

Component Description:

Project

Amount:

Management \$1,081.25

Component Description:

Project

Amount:

Management \$1,869.20

Component Description:

Project

Amount:

Management \$6,388.80 FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$32,245.00	\$25,490.00		\$0.00	
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	\$0.00	N/A
Develop and air announcement of upcoming channel change	\$13,500.00	\$13,500.00	N/A	\$0.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$2,000.00	\$2,000.00	N/A	\$0.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	\$0.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,800.00	N/A	\$0.00	N/A
Sub-total	\$32,245.00	\$25,490.00	N/A	\$0.00	N/A
Total for all systems	\$3,296,178.01	\$2,196,162.04	N/A	\$1,856,568.38	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,296,178.01	\$2,196,162.04	\$1,856,568.38

Reimbursem	enrestiatus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	Yes
	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

Section Question Response

Submission of Estimated Expenses Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
 Person signing
 below certifies that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Kevin J Buente Chief Engineer

05/20/2020

Section Question Response

Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
 Person signing
 below certifies and
 represents that he
 /she is authorized to
 submit this TV
 Broadcaster
 Relocation Fund
 Reimbursement
 Form on behalf of
 the above-named
 entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

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

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Kevin J Buente Chief Engineer

05/20/2020

Section Question Response

Submission of Final Allocation or Accounting Information Statements

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The abovenamed entity acknowledges that all certifications and attached documentation are considered material representations.
- 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
- 4. 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.
- 5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 6. 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 abovenamed applicant for the Authorization(s) specified above. Kevin J Buente Chief Engineer

05/20/2020

Attachments