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

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **68549** | Service: **DCA** | Call Sign: **WOHL-CD** | Channel: **15 (UHF)**

File Number: **0000028557**

FRN: **0018282269** | Date Submitted: **07/01/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WEST CENTRAL OHIO BROADCASTING, INC.	Fred Vobbe 1424 RICE AVENUE LIMA, OH 45805 United States	+1 (419) 228-8835	fvobbe@wlio.com	Corporation

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Frederick R Vobbe *VP and Chief Operator* *West Central Ohio Broadcasting, Inc.*	Frederick R Vobbe 1424 Rice Avenue Lima, OH 45805 United States	+1 (419) 228-8835	fvobbe@wlio.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	WOHL-CD will require a new transmitter site as the present tower failed structual analysis. The FCC has before them WOHL's Request for Waiver of Initial Construction Permit Filing Deadline, granted 7/12/17.

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	LU500BTD
	Year	2009
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	.5 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?	Yes
	Manufacturer	
	Model	ULXTE-16
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	6.58 kW
	Justification for New Transmitter	WOHL's present transmitter can not make the TPO needed for 100% replication of service contour.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches

	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	1600.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Electrical	Parallel Surge Supressor and a 75 Kva Transformer three phase 480vDelta Primary
Remote ControlSystem	Remote Control System
Installation and Proof	Installation of Transmitter system
State and local sales tax	State and Local sales tax
New Transmitter Site	WOHL-CD will need to move from the present transmitter site to a new site. A building to house the transmitter will be required.

Generator	Generator plus Installation and supporting construction within new transmitter site.
Shipping Expense	Shipping expense for transmitter

Antennas

Section	Question	Response
Antenna Related 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?	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	Class A
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	9.0 kW

Manufacturer	
Model	TFU-30JA
Year	1986

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?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Class A
	Mounting	Top Mount
	Antenna position in stack	Top
	Polarization	Circular
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	11.5 kW
	Manufacturer	

Model	ATW6H3-CTO-15H
Year	2017
Justification for New Antenna	WOHL-CD will move to a new tower site due to structural issues on the present tower. New antenna is circular polarized, difference of $15,500 from the cost of a horizontally polarized antenna.

Primary Antenna

Other Antenna Costs

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

	Feed Line Size	3 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
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

Other Antenna Cost Not Listed

Name	Description
RF Switch	RF switch to change transmitter from antenna to dummy load for testing.
Shipping cost	Shipping cost
Custom Antenna Mounts	Custom top mounts

Transmission Line

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

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	560 feet per run

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	650 feet per run
	Justification for New Transmission Line	WOHL-CD will move to a new transmitter site because of structural problems with present tower.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Gas Barrier	Transmission line will need to be pressurized from antenna to bldg.

Ice Bridge	Transmission line will need to be supported between tower and building and protected from ice fall.

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	Construct New
	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	1014519
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 44' 51.2" N-
	Longitude (NAD83)	084° 07' 54.3" W-
	Overall Structure Height	548.88 feet
	Support Structure Height	499.99 feet
	Ground Elevation Above Mean Sea Level (AMSL)	870.07 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

Tower Owner	LIMA COMMUNICATIONS CORPORATION
Date Constructed	12/01/2004

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
37503	WLIO	DTV

Primary Tower

Tower Construction Costs

Section	Question	Response
Construct New Tower	Use	Primary (Main)
	Description of Use	N/A
	Is this a request for upgraded equipment?	Yes
	Height	538.50 feet
	Justification for New Tower	WOHL-CD is moving to a new tower, and site. The present tower did not pass analysis. There is no land at present location to build new tower, which is in urban /residential area.

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Shipping cost	Shipping cost

STL Antenna-Installation cost	WOHL-CD will require an STL to feed programming to and to control the transmitter. A TSL is needed to return News ENG program streams along with metering and status data from transmitter, and security monitoring.
Studio Tower Modifications	Studio Tower modifications necessary as part of WOHL repack and new tower construction.
Tower Structure Analysis	Structure analysis of existing tower
Ground System	Upgraded ground system, 100' x 100' to prevent lightning damage.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	1000
	Explanation	WOHL will move to a new location, and build a new tower. To obtain replication of coverage, the station will have to undergo comprehensive engineering and legal analysis, and testing during the construction.
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 Services	Prepare and file Form FCC Construction Permit Application	Yes
	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	2
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	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	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Attorney Fees and Other Matters	Legal Counsel
Construction Site Project MGMT	The Lathrop Company project management
Microwave License Study	The STL will require a path study for coordination of license.
Public Utility Analysis	Transmitter site must have proper power and telco services at new site.
RF Consultant D. Everist	RF Consultant that files engineering studies on behalf of WOHL-CD
Site Survey	Location site survey

Other Expenses

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

Other Expenses

Other Expenses Not Listed

Name	Description
Field Strength Tests	WOHL will conduct field signal tests on present channel, and repacked channel to make sure signal meets service contour.
Generator	WOHL's transmitter presently shares a generator with the studios and offices of WOHL. The move would leave WOHL without backup power in an emergency.
IP Switch for STL-TSL system	Switch control for the transmitter
Microwave Receive Site ENG	WOHL will need to construct q new ENG Microwave Receive system and place it in service before the old site can be decommissioned due to public and network commitments to news.
STL-TSL system	6/7 Ghz microwave receive transmitter, receiver, antennas and transmission lines to link the studio the new transmitter site
Translator	Fill in for coverage lost on move.
ENG Microwave System	Cables and TX Lines for microwave system

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	Actua Justif
Primary Transmitter ULXTE-16	**$2,608,933.45**	**$2,574,129.14**		**$2,177,247.15**	
Shipping Expense	***$5,400.00***	$5,400.00	N/A	$0.00	N
Generator	***$216,712.83***	$216,712.83	Please see attached RA Flynn Quote & Graybar Invoices	$216,551.13	inv
New Transmitter Site	***$1,022,821.10***	$1,022,821.10	Purchase price of land for new transmitter site. See Settlement Statement.	$855,154.75	N
State and local sales tax	***$31,743.86***	$31,743.86	N/A	$0.00	N
Installation and Proof	***$35,688.33***	$35,688.33	GatesAir Invoice TE10004511-2	$35,688.33	
Remote ControlSystem	***$9,190.50***	$9,190.50	N/A	$0.00	N
Electrical	***$4,226.38***	$4,226.38	N/A	$2,803.72	N
Other -- Building Addition Size: 1600.0	***$734,965.87***	$734,965.87	Please see attached RA Flynn Quote and RA Flynn Change orders 84503, 84504, 84845, 84846 and 85328 for BLDG addition costs (less HVAC and Generator Costs); KEI Estimate #18-8020; Frank V Razinger PE, LLC 1478, Elwer Fence 2190416, 2190417, 219041	$734,965.87	N

20 Ton system	$115,500.00	$118,628.00	Please see attached RA Flynn Quote	$109,661.56	N
3" Rigid Conduit and Wiring (Cost per foot)	$5,200.00	$4,750.00	N/A	$0.00	N
Transformer 3 phase/480v - 500 KVA	$48,400.00	$14,017.69	Please see American Electric Power Contract No DWMS00000451497 and Purchase Order 8952	$14,017.69	N
Switchgear - industrial 800 amp	$38,200.00	$36,000.00	N/A	$0.00	N
Service entrance 3 phase/800 amp/208 volt	$14,400.00	$13,500.00	N/A	$0.00	N
UHF - Liquid Cooled Solid State Transmitter 6.58 kW	***$326,484.58***	$326,484.58	N/A	$208,404.10	N
Sub-total	$2,608,933.45	$2,574,129.14	N/A	$2,177,247.15	N
Total for all systems	$5,948,527.83	$5,747,940.19	N/A	$3,036,996.61	N

Components

Actual Information Description	File Name
Shipping Expense	Information not provided.
Generator	**Component Description:** WOHL-110-1st Primary Transmitter - Generator **Amount:** $151,615.75

Component Description:	LD10El6-A PANDUIT CORP
Amount:	$25.55
Component Description:	THHN-8-STR-GRN-CUT REEL GENERIC VENDOR WIRE-WYRPA
Amount:	$26.13
Component Description:	CF54/100EZ CABLOFIL INC
Amount:	$736.53
Component Description:	KA4C BURNDY LLC
Amount:	$401.28
Component Description:	LD5IG6-A PANDUIT CORP
Amount:	$161.70
Component Description:	WOHL Transmitter Site Electrical Work
Amount:	$54,296.83
Component Description:	LD5El6-A PANDUIT CORP
Amount:	$13.70
Component Description:	WOHL-110-1st Primary Transmitter - Other Electrical Costs Not Listed - Generator
Amount:	$9,324.25

	Component Description:	502 ABB INSTALLATION PRODUCTS INC
	Amount:	$111.11
New Transmitter Site		
	Component Description:	Settlement Statement for New Transmitter site
	Amount:	$855,154.75
State and local sales tax	Information not provided.	
Installation and Proof		
	Component Description:	WOHL-110-1st Primary Transmitter - Installation and Proof of Performance
	Amount:	$17,933.39
	Component Description:	WOHL-110-1st Primary Transmitter - Installation and Proof of Performance
	Amount:	$8,832.86
	Component Description:	WOHL-110-1st Primary Transmitter - Installation and Proof of Performance
	Amount:	$8,922.08
Remote ControlSystem	Information not provided.	

Electrical	**Component Description:**	PS 200 EH 20 PGAL Allied Tube & Conduit Hole Chnl
	Amount:	$499.72
	Component Description:	Copper Strap. 4in. x .032in. x 100ft.
	Amount:	$2,304.00
Other -- Building Addition Size: 1600.0	**Component Description:**	"CHANGE ORDER #4 - MATERIAL AND LABOR TO EXTEND ALL WALLS TO BOTTOM OR ROOF DECK AND ADD 16"" OF ADDITIONAL BUILDING HEIGHT"
	Amount:	$7,698.00
	Component Description:	Replace posts damaged by the excavation crew
	Amount:	$179.49
	Component Description:	6th draw for material and labor
	Amount:	$7,818.50
	Component Description:	Mitel 5000 License IP Phone Category D
	Amount:	$708.71

Component Description:	Install chain link fence around the tower anchors
Amount:	$14,891.63
Component Description:	Install chain link fence under the canopy in the area of the generator
Amount:	$736.58
Component Description:	Change order #1 - Add two course of block to top of building for more interior clearance under bar joint.
Amount:	$3,188.50
Component Description:	change order #2 develop stone roadways from new building to three guy wire foundation locations.
Amount:	$13,423.61
Component Description:	1st draw for new transmitter building
Amount:	$138,909.00
Component Description:	5TH DRAW FOR LABOR AND MATERIAL
Amount:	$49,400.00
Component Description:	Material and Labor
Amount:	$162,890.47

Component Description:	Special Cleaning
Amount:	$266.88
Component Description:	Install chain link fence around the perimeter of the building
Amount:	$10,839.40
Component Description:	HVAC, Plumbing
Amount:	$53,299.75
Component Description:	CHANGE ORDER #3 - 14' X 23' X 8' SLAB ON GRADE WITH 4" REBAR
Amount:	$4,353.00
Component Description:	3rd draw for materials and labor for new transmitter building
Amount:	$131,234.90
Component Description:	Drafting & Associate Services, Engineering Services, Credit Payment
Amount:	$21,708.00
Component Description:	4TH DRAW FOR MATERIAL AND LABOR FOR
Amount:	$111,278.90

	Component Description: CO-2 Fire Ext New Aluminum **Amount:** $2,140.55 **Component Description:** 444PC Mech **Amount:** $720.55
20 Ton system	**Component Description:** WOHL-110-1st Primary Transmitter - 20 Ton System **Amount:** $19,000.00 **Component Description:** WOHL-110-1st Primary Transmitter - 20 Ton System **Amount:** $5,700.00 **Component Description:** WOHL-110-1st Primary Transmitter - 20 Ton System **Amount:** $38,000.00 **Component Description:** WOHL Heat exchanger pipe guard and filter rack **Amount:** $2,276.79 **Component Description:** WOHL-110-1st Primary Transmitter - 20 Ton System **Amount:** $44,684.77
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

Transformer 3 phase/480v - 500 KVA	**Component Description:** **Amount:**	Install #2 AL 3 Phase UG primary and 500 KVA 120 /208V padmount transformer $14,017.69
Switchgear - industrial 800 amp	Information not provided.	
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 6.58 kW	**Component Description:** **Amount:**	1/3 down payment $55,995.63
	Component Description: **Amount:**	CF54/100EZ CABLOFIL INC 2IN X 4IN CABLE TRAY ZINC $91.18
	Component Description: **Amount:**	33% ULXTE-6 Transmitter $64,426.74
	Component Description: **Amount:**	FASPCH150PG CABLOFIL INC 6 IN FAS CENTER HANGER PRE-GALVANIZED $92.65
	Component Description: **Amount:**	ULXTE-6 Transmitter $87,797.90

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna ATW6H3-CTO-15H	**$232,937.85**	**$232,679.72**		**$190,664.69**	
Custom Antenna Mounts	***$6,191.50***	$6,191.50	N/A	$6,191.50	N/A
Shipping cost	***$2,963.65***	$2,963.65	N/A	$2,963.65	N/A
Sweep test of existing antenna	$6,730.00	$6,671.87	ERI Invoice WOHL-004B	$6,046.87	N/A
UHF - Lower Power, Top Mount, Class A, basic slot antenna, 12 kW input, elliptically or circularly polarized	***$202,837.70***	$202,837.70	N/A	$175,462.67	N/A
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	$7,600.00	$7,400.00	N/A	$0.00	N/A

RF Switch	***$6,615.00***	$6,615.00	N/A	$0.00	N/A
Sub-total	$232,937.85	$232,679.72	N/A	$190,664.69	N/A
Total for all systems	$5,948,527.83	$5,747,940.19	N/A	$3,036,996.61	N/A

Components

Actual Information Description	**File Name**
Custom Antenna Mounts	**Component Description:** Custom Eng Antenna Mounts **Amount:** $3,095.75 **Component Description:** Custom Eng Antenna Mounts **Amount:** $3,095.75
Shipping cost	**Component Description:** WOHL-210-Primary Antenna - Shipping Cost **Amount:** $2,963.65

Sweep test of existing antenna	**Component Description:** WOHL-210- Primary Antenna - Sweep Test **Amount:** $1,875.00 **Component Description:** WOHL-210- Primary Antenna - Sweep Test **Amount:** $1,875.00 **Component Description:** WOHL-210- Primary Antenna - Sweep Test **Amount:** $2,296.87
UHF - Lower Power, Top Mount, Class A, basic slot antenna, 12 kW input, elliptically or circularly polarized	**Component Description:** 30% payment Trasar & Transmission Line System **Amount:** $54,345.00 **Component Description:** 30% payment Trasar & Transmission Line System **Amount:** $54,345.00 **Component Description:** 30% payment Trasar & Transmission Line System **Amount:** $66,772.67
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.
RF Switch	Information not provided.

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	**$148,856.08**	**$147,778.88**		**$140,761.78**	
Ice Bridge	***$80,049.08***	$80,049.08	Bauman Mechanical Inc. Invoice 21519	$80,039.08	N/A
Gas Barrier	***$1,207.00***	$1,207.00	N/A	$0.00	N/A
Rigid Transmission Line - copper, 3 1/8"	$67,600.00	$66,522.80	ERI Proposal 20170905-597 Rev D	$60,722.70	N/A
Sub-total	$148,856.08	$147,778.88	N/A	$140,761.78	N/A
Total for all systems	$5,948,527.83	$5,747,940.19	N/A	$3,036,996.61	N/A

Components

Actual Information Description	File Name

Ice Bridge	**Component Description:** 2nd draw fabrication completed p.o.# 8889 **Amount:** $36,028.12 **Component Description:** Final draw for PO 8889, fabrication and installation complete **Amount:** $36,038.12 **Component Description:** Fabricate and install aluminum entry frame **Amount:** $7,972.84
Gas Barrier	Information not provided.
Rigid Transmission Line - copper, 3 1/8"	**Component Description:** Feed thru assembly- wall/roof 3-1/8" RL **Amount:** $444.41 **Component Description:** Elbows **Amount:** $767.32 **Component Description:** Wall Entry Boots & Hardware **Amount:** $284.33 **Component Description:** Elbows **Amount:** $663.00

Component Description:	WOHL-310-Primary Transmission Line - 3 1/8" Rigid Copper
Amount:	$17,400.29
Component Description:	WOHL-310-Primary Transmission Line - 3 1/8" Rigid Copper
Amount:	$17,400.29
Component Description:	Feed Line
Amount:	$1,189.57
Component Description:	FABRICATE AND INSTALL STAND FOR DEHYDRATOR SYSTEM
Amount:	$907.38
Component Description:	WOHL-310-Primary Transmission Line - 3 1/8" Rigid Copper
Amount:	$21,666.11

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	**$0.00**	**$0.00**		**$0.00**	
Primary Tower	**$1,698,732.66**	**$1,532,797.66**		**$73,734.81**	
Studio Tower Modifications	***$276,083.00***	$276,083.00	Please see ERI Proposal 20181012-548 Rev B	$0.00	N/A
Ground System	***$23,420.00***	$23,420.00	Additional ground, 120 radials, buried 24", 100' due to history of electrical storms in region.	$17,257.52	N/A
Tower Structure Analysis	***$20,300.00***	$20,300.00	Please see Malouf invoices 1705093VO, 1705093V1, 1705093VOA, 1805093VO, and 1805093V1	$12,500.00	N/A
Shipping cost	***$5,387.30***	$5,387.30	N/A	$0.00	N/A
STL Antenna-Installation cost	***$11,000.00***	$11,000.00	N/A	$0.00	N/A

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	$421,000.00	$255,065.00	N/A	$6,000.00	N/A
New tower	***$941,542.36***	$941,542.36	Please see attached Purchase Order 8866	$37,977.29	N/A
Sub-total	$1,698,732.66	$1,532,797.66	N/A	$73,734.81	N/A
Total for all systems	$5,948,527.83	$5,747,940.19	N/A	$3,036,996.61	N/A

Components

Actual Information Description	**File Name**	
Studio Tower Modifications	**Component Description:** **Amount:**	Studio Tower Modification $276,083.00

Ground System	**Component Description:**	615800 Erico International Corporation GR RODPTDCU
	Amount:	$217.52
	Component Description:	Interior and exterior ground strap installation
	Amount:	$8,540.00
	Component Description:	Total Due Req. No. 1
	Amount:	$8,500.00

Tower Structure Analysis	**Component Description:** **Amount:**	Perform a Structural Analysis (2 Scenarios) for referenced project. Prepare an Engineering Report. $8,000.00
	Component Description: **Amount:**	Perform a Structural Analysis (3rd Scenario) for referenced project. Prepare an Engineering Report. $2,000.00
	Component Description: **Amount:**	Perform a Structural Analysis for referenced project. Prepare an Engineering Report. $2,500.00
Shipping cost	Information not provided.	
STL Antenna-Installation cost	Information not provided.	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	**Component Description:** **Amount:**	Design structural modifications as required by structural analysis results and prepare modification working drawings and Technical Specification Notes $6,000.00

New tower

Component Description:	Geotechnical Services
Amount:	$4,825.00
Component Description:	Professional Services
Amount:	$1,989.23
Component Description:	Professional Services
Amount:	$424.17
Component Description:	Work completed to date on installation of vinyl fence per proposal #WLl518.
Amount:	$7,045.50
Component Description:	Weather Day
Amount:	$30,331.50
Component Description:	ALTA/NSPS Land Title Survey
Amount:	$5,086.00
Component Description:	Install vinyl fence with farm gates per proposal #WLl5l8.
Amount:	$4,169.66
Component Description:	Professional Services
Amount:	$2,320.86

Component Description:	Elwer Fence
Amount:	$4,697.00
Component Description:	Professional Services
Amount:	$3,319.87
Component Description:	Custom Lighting
Amount:	$4,100.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Justific
Outside Professional Services	**$710,109.67**	**$712,161.67**		**$249,015.81**	
Site Survey	***$7,536.00***	$7,536.00	Please see the attached invoices from LEWANDOWSKI ENGINEERS, LLC # 16985 and 17313	$2,638.00	N/A
RF Consultant D. Everist	***$50,000.00***	$50,000.00	N/A	$0.00	N/A
Public Utility Analysis	***$12,500.00***	$12,500.00	Estimate- American Electric Power, Dominion Gas Company and the City of Lima Water Dept. will not provide quotes until the building plans for the new transmitter building have been submitted for approval.	$0.00	N/A
Microwave License Study	***$7,150.00***	$7,150.00	STL Path, and required coordination notifications. Attached quote does not include Comsearch frequency coordination fee.	$0.00	N/A

Construction Site Project MGMT	***$234,750.49***	$234,750.49	N/A	N/A	N/A
Attorney Fees and Other Matters	***$100,543.18***	$100,543.18	Cooley Invoices	$86,960.68	invoic
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	N/A	$0.00	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$2,000.00	N/A	$0.00	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	$0.00	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	$10,520.00	$10,000.00	N/A	$9,574.20	N/A
NEPA Section 106 environmental review, if needed	$6,310.00	$23,432.00	Justifying Invoice - WOHL Terracon TA31840	$23,432.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$7,360.00	$7,000.00	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	$4,447.00	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$0.00	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$1,800.00	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
Project management of the transition	$158,000.00	$150,000.00	N/A	$120,163.93	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	$0.00	N/A
Sub-total	$710,109.67	$712,161.67	N/A	$249,015.81	N/A
Total for all systems	$5,948,527.83	$5,747,940.19	N/A	$3,036,996.61	N/A

Components

Actual Information Description	File Name

Site Survey	**Component Description:** 2017 Crop loss **Amount:** $796.00 **Component Description:** Senior Design Engineer, CAD Tech. One-Man, OPS **Amount:** $1,842.00 **Component Description:** CAD Tech **Amount:** $608.00 **Component Description:** WOHL-550-Attorney - Construction Permit Application (Main) **Amount:** $4,335.00
RF Consultant D. Everist	Information not provided.
Public Utility Analysis	Information not provided.
Microwave License Study	Information not provided.
Construction Site Project MGMT	Information not provided.
Attorney Fees and Other Matters	**Component Description:** For Professional Services Rendered **Amount:** $4,772.50 **Component Description:** Professional services **Amount:** $4,009.50 **Component Description:** For Professional Services Rendered **Amount:** $919.50

Component Description:	Fees
Amount:	$3,609.50
Component Description:	Professional Services
Amount:	$5,484.08
Component Description:	Fees
Amount:	$2,347.50
Component Description:	Professional services
Amount:	$4,283.30
Component Description:	Email with K. Wilkowki and station staff re FCC site visits
Amount:	$2,070.00
Component Description:	Professional services
Amount:	$2,255.00
Component Description:	Professional services
Amount:	$2,852.50
Component Description:	For Professional Services Rendered
Amount:	$8,103.50
Component Description:	For Professional Services Rendered
Amount:	$390.00

	Component Description: Email with engineering staff re second tranche of repack funding **Amount:** $1,350.00 **Component Description:** Professional services **Amount:** $626.00 **Component Description:** For Professional Services Rendered **Amount:** $1,751.30 **Component Description:** Review status of repack project and FAA approval; email with K. Wilkowski re same **Amount:** $42,136.50
Comprehensive coverage verification via field study, if needed	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	**Component Description:** **Amount:**	Professional Services $7,324.20
	Component Description: **Amount:**	Terracon Consultants, Inc. - Miscellaneous $2,250.00
NEPA Section 106 environmental review, if needed	**Component Description:** **Amount:**	Tribal Fees $20,132.00
	Component Description: **Amount:**	WOHL-590-NEPA Section 106 Environmental Review $3,300.00
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	**Component Description:** **Amount:** **Component Description:** **Amount:**	WOHL-550-Attorney - Construction Permit Application (Main) $112.00 WOHL-550-Attorney - Construction Permit Application (Main) $4,335.00
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Perform a Structural Reanalysis for the referenced site(s) for the new scenario. Prepare a Report of Findings. $1,800.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Project management of the transition		

Component Description: Project Management
Amount: $2,607.90

Component Description: Project Management
Amount: $23,428.95

Component Description: Project Management
Amount: $14,676.05

Component Description: Project Management
Amount: $20,277.40

Component Description: Project Management
Amount: $582.60

Component Description: Project Management
Amount: $2,745.60

Component Description: Project Management
Amount: $1,717.75

Component Description: Contractor's Application for Payment
Amount: $21,309.73

Component Description: Project Management
Amount: $1,809.30

	Component Description: Fees **Amount:** $7,666.00 **Component Description:** Project Management **Amount:** $241.75 **Component Description:** Project Management **Amount:** $2,605.05 **Component Description:** Project Management **Amount:** $1,856.00 **Component Description:** Project Management **Amount:** $1,548.50 **Component Description:** Project Management **Amount:** $1,377.05 **Component Description:** Project Management **Amount:** $1,267.90 **Component Description:** Project Management **Amount:** $14,446.40
Prepare and or review reimbursement form	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 Co Justificati
Other Expenses	**$548,958.12**	**$548,393.12**		**$205,572.37**	
ENG Microwave System	***$20,603.39***	$20,603.39	Per IMT Quote T208376/1	$20,603.39	N/A
Translator	***$110,541.40***	$110,541.40	Translator, UHF channel, 15kw, to fill in area lost in coverage due to geographic move of transmitter site, and restriction of overlap of old contour.	$0.00	N/A
STL-TSL system	***$179,302.11***	$179,302.11	Heartland Video Systems Quote #WISQ55968-02	$166,301.62	N/A
Microwave Receive Site ENG	***$105,924.44***	$105,924.44	N/A	$0.00	N/A
IP Switch for STL-TSL system	***$1,921.83***	$1,921.83	Per Hearland Video Systems	$1,921.83	N/A
Field Strength Tests	***$25,000.00***	$25,000.00	Signal measurements made at twelve or more communities comprising WOHL's DMA.	$10,000.00	N/A

MVPD Notification of Channel Change	***$3,452.00***	$3,452.00	Notification to 13 cable companies, and 14 MATV businesses. DTVNotification #INV-001772	$2,452.00	N/A
Develop and air announcement of upcoming channel change	***$5,000.00***	$5,000.00	N/A	$0.00	N/A
Equipment Storage	***$6,000.00***	$6,000.00	Power Company	$0.00	N/A
Equipment Delivery and Handling Charges	***$23,582.95***	$23,582.95	Shipping for transmitter, antenna, terminal equipment, and specialized equipment.	$736.58	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$2,100.00***	$2,100.00	Multiple 15yd dumpsters.	$0.00	N/A
Non-zoning permits	***$7,500.00***	$7,500.00	Electrical, plumbing, HVAC, land management, drainage.	$82.95	N/A
Local Zoning	***$10,000.00***	$10,000.00	Zoning via township and City of Lima (OH)	$478.00	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	$0.00	N/A

FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	$0.00	N/A
DTV Medical Facility Notification	$11,550.00	$11,000.00	N/A	$2,996.00	N/A
Generator	***$35,950.00***	$35,950.00	Caterpillar 100kw/125kva @ 208/120V diesel generator, and transfer switch.	$0.00	N/A
Sub-total	$548,958.12	$548,393.12	N/A	$205,572.37	N/A
Total for all systems	$5,948,527.83	$5,747,940.19	N/A	$3,036,996.61	N/A

Components

Actual Information Description	File Name
ENG Microwave System	**Component Description:** ANT, ULTRSCN11, 2/2.5GHZ, NON-CONT, ROTATION CNTRL **Amount:** $20,603.39
Translator	Information not provided.
STL-TSL system	**Component Description:** Framed load 10 inputs by 10 outputs 3G HD/SD video **Amount:** $2,132.98 **Component Description:** Interference analysis **Amount:** $2,775.00

	Component Description: SAF 13GHz G2 Series Indoor Duplex Very High Power Microwave Link. **Amount:** $35,010.30 **Component Description:** 50% per quoted terms of original quote: WISQ55968-02 **Amount:** $45,316.00 **Component Description:** 50% per quoted terms of Original Quote: WISQ46021-11 **Amount:** $36,742.92 **Component Description:** APC SMT1500RM2U 1440 VA 1000 W UPS **Amount:** $2,328.01 **Component Description:** Two SAF 1 0, 7GHz, Indoor, Duplex, High Power Microwave Links. **Amount:** $41,996.41
Microwave Receive Site ENG	Information not provided.

IP Switch for STL-TSL system	**Component Description:** **Amount:**	WOHL-610-IP Switch for STL-TSL System $422.90
	Component Description: **Amount:**	Prep & Powder Coat Side $520.94
	Component Description: **Amount:**	WOHL-610-IP Switch for STL-TSL System $977.99
Field Strength Tests	**Component Description:** **Amount:**	For professional services rendered $10,000.00
MVPD Notification of Channel Change	**Component Description:** **Amount:**	Notification of Cable and Satellite MVPD Providers of new RF Channel and Transport Stream Parameters on Repack Channel $2,452.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	**Component Description:** **Amount:**	Replace post damaged & removed by the tower crew $736.58

Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Non-zoning permits	**Component Description:** **Amount:**	Commercial Building Application $82.95
Local Zoning	**Component Description:** **Amount:**	Zoning permit $478.00
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	DTV Notification Service - Notification of Medical Facilities $2,996.00
Generator	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$5,948,527.83	$5,747,940.19	$3,036,996.61

Reimbursement Status

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

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

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Keith Wilkowski** *VP, Legal & Governmental Affairs* 07/01/2019

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).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Keith Wilkowski** *VP, Legal & Governmental Affairs* 07/01/2019

Attachments