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: **66185** | Service: **DTV** | Call Sign: **WOSU-TV** | Channel: **16 (UHF)**

File Number: **0000028867**

FRN: **0006031983** | Date Submitted: **07/13/2017**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
THE OHIO STATE UNIVERSITY Doing Business As: THE OHIO STATE UNIVERSITY	2400 OLENTANGY RIVER ROAD COLUMBUS, OH 43210 United States	+1 (614) 292-9678	Tom.Rieland@wosu.org	Government Entity

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
The Preparer is same as the reimbursement contact.			

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	Purchase new transmitter, antenna and transmission line. Lease interim side-mount ch 38 antenna, use existing line to maintain service while top-mount is removed and new antenna, transmitter and line installed. See attached Transition Plan.

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	CD3200P2
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	42 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-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Current Sigma CD not frequency agile. Gates advises with re-tuning components likely not available, major-frequency change should not be considered given age, age or cost of IOTs, need for new mask filter and other RF equipment.

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	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	40.0 feet
	Other Electrical Service	Yes
	Description	Reworking of existing electrical system to rewire main fused disconnect box to protect new transmitter by on-site generator. New distribution panel to feed power cooling transformer.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	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?	Yes

	Size	120.0 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
Liquid Cooling System Items	Items not included in transmitter quote. Includes indoor pump modules for multiple PUs, outdoor heat exchangers and coolant. Placed as additional cost because HVAC question was oriented to air-cooled systems.
Exciters	2 Gates XTT Multi-Standard Exciter. WOSU currently has two exciters that will not work with new 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?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	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)	511.0 kW

Manufacturer	
Model	TFU-20GTH-RO4
Year	2003

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?	No
	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	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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)	311.0 kW
	Manufacturer	

	Model	ATW15H3-HTO-16H
	Year	2017
	Justification for New Antenna	Existing top-mount channel 38 antenna is not frequency agile and cannot be re-tuned to new ch 16 assignment.

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	6 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
Custom Top Plate	Interface for attachment of new antenna to non-standard tower. Existing antenna also required custom plate.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Rent Temporary
	Ownership	Leased
	Owner	ERI
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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)	25.0 kW
	Manufacturer	
	Model	ATW-2G
	Year	2017

	Justification for New Antenna	Rental of temporary ch 38 antenna for up to three months to maintain service while existing top-mount antenna and top plate are removed, new top plate and ch 16 antenna installed.

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 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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1190 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?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1240 feet per run

	Justification for New Transmission Line	Existing line will be used for interim antenna to maintain service on ch38. Existing line dates to 2003, has been repaired and segments replaced. After interim antenna removed, line will be capped for use with a future backup ch16 ant. (not in proposal)

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Ice Bridge	Replacement/additional 150' ice bridge to support and protect new transmission line. Existing bridge is overloaded, in questionable shape and not well-supported. See Site Survey attachment
Line Dehydrator	Andrew Dryline low-pressure dehydrator for transmission line.
Sweep and Tune	System sweep, tune and test after installation.
Transmission Line System Design	Initial system design, plus on-site tech visit for final deliverable

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?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1054358
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	40° 09' 33.0" N-
	Longitude (NAD83)	082° 55' 23.0" W-
	Overall Structure Height	1106.94 feet
	Support Structure Height	1067.90 feet
	Ground Elevation Above Mean Sea Level (AMSL)	920.92 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	OHIO STATE UNIVERSITY DBA = WOSU STATIONS
Date Constructed	01/01/1973

Primary Tower

Tower Modification Costs

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

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Mapping	Confirmation mapping to provide current status in preparation of rigorous tower analysis.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	150
	Explanation	WOSU only maintains a three-person engineering staff to deal with three television transmitters and six radio stations, as well as all other technology issues in our aging building. We are very tight on staff time, especially for large projects,
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	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	No
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
Quarterly Progress Reports	Prepare and file FCC-required Quarterly Progress Reports on Schedule 387 during station repack process.
Transmitter Site Site Survey	Comprehensive transmitter site survey and report by Gates Air specifying needs and providing recommendations (see as attachment)
Additional Legal Expenses	Additional expenses for advice and counsel on repack for University-owned public TV station operating "sole service" PBS station in Columbus market.

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?	No
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	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

Other Expenses Not Listed

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-50	**$1,128,880.00**	**$1,126,960.00**		**$0.00**	
3" Rigid Conduit and Wiring (Cost per foot)	$2,080.00	$1,960.00	N/A	N/A	N/A
Other Electrical Service: Reworking of existing electrical system to rewire main fused disconnect box to protect new transmitter by on-site generator. New distribution panel to feed power cooling transformer.	***$30,000.00***	$30,000.00	Panel, parts and installations.	N/A	N/A

Other -- Building Addition Size: 120.0	***$100,000.00***	$100,000.00	Approximately 120' square foot space outside of existing building to protect heat exchangers for new transmitter cooling system. Project includes design, concrete pad and ice-protective building overhang.	N/A	N/A
Liquid Cooling System Items	***$30,000.00***	$30,000.00	Items include indoor modules, outdoor heat exchangers, plumbing and coolant. Items not included in transmitter quote.	N/A	N/A
Exciters	***$30,000.00***	$30,000.00	WOSU currently maintains a two-exciter system with automatic switchover. Current exciters will not work with new transmitter. This request is for a new primary and backup.	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 31.7 kW	***$900,000.00***	$900,000.00	Will include transmitter control, PA power blocks, mask filter system and hardware, plus proof. Does not include exciters.	N/A	N/A
Transformer 3 phase/480v - 300 KVA	$36,800.00	$35,000.00	480T0208-150KVA-480vv, three phase transformer Delta primary, parallel surge suppressor for Delta, various installation items	N/A	N/A
Sub-total	$1,128,880.00	$1,126,960.00	N/A	$0.00	N/A
Total for all systems	$2,764,653.00	$2,539,633.00	N/A	$0.00	N/A

Components

Information not provided.

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
Interim Antenna ATW-2G	**$138,650.00**	**$32,500.00**		**$0.00**	
UHF - High Power, Side Mount, basic slot antenna, 25 kW input, directional,, horizontally polarized	***$0.00***	$0.00	This is a correct description, however costs reflected in lease numbers listed on this page.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$7,500.00	Lease for use with interim antenna	N/A	N/A

Interim antenna rental and installation - Cost will depend on antenna size and height and /or complexity of tower.	$115,500.00	$25,000.00	Three-month lease of 25kW side-mount antenna to maintain channel 38 service during installation of new ch 16 antenna and feed line. Cost includes installation, overnight-connection to existing line and removal at end of project.	N/A	N/A
Primary Antenna ATW15H3-HTO-16H	**$286,030.00**	**$273,100.00**		**$0.00**	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$11,700.00	N/A	N/A	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	Sweep of the full RF system was included in Gates Air Site Survey (included in attachments). Has already been completed.	N/A	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	$247,000.00	$235,000.00	N/A	N/A	N/A
Custom Top Plate	***$20,000.00***	$20,000.00	To attach new antenna to non-standard tower top. Current antenna also required custom plate.	N/A	N/A
Sub-total	$424,680.00	$305,600.00	N/A	$0.00	N/A
Total for all systems	$2,764,653.00	$2,539,633.00	N/A	$0.00	N/A

Components

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	**$333,400.00**	**$312,920.00**		**$0.00**	
Transmission Line System Design	***$8,750.00***	$8,750.00	includes preliminary layout, then site visit for definitive line layout	N/A	N/A
Sweep and Tune	***$8,200.00***	$8,200.00	Sweep, tune and test, two days mobilization, use of test equipment.	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	$250,480.00	$230,000.00	Full system including hangers, etc.	N/A	N/A
Ice Bridge	***$55,000.00***	$55,000.00	Materials and installation costs for 120-foot ice bridge from transmitter building to tower since current bridge will not support both new and current 6 1/4" transmission lines.	N/A	N/A

Line Dehydrator	***$10,970.00***	$10,970.00	Line protection alternative to nitrogen pressure system.	N/A	N/A
Sub-total	$333,400.00	$312,920.00	N/A	$0.00	N/A
Total for all systems	$2,764,653.00	$2,539,633.00	N/A	$0.00	N/A

Components

Information not provided.

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	**$647,850.00**	**$611,750.00**		**$0.00**	
Tower Mapping	***$3,750.00***	$3,750.00	Tower mapping to confirm status in preparation for structural study. Was completed by George Fitz Antenna Service.	N/A	N/A
Tall Tower (greater than 500')	$210,500.00	$200,000.00	Mobilization, rigging, removal of current antenna, installation of new antenna and transmission line. Does not include costs for installation and removal of interim antenna.	N/A	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$8,000.00	N/A	N/A	N/A

Major tower reinforcement /modifications	$421,000.00	$400,000.00	Tower structural analysis indicates that reinforcement will be required in at least 12 bays, plus tower base must be reinforced with additional concrete to meet G standards. Does not create additional capacity beyond needs for project.	N/A	N/A
Sub-total	$647,850.00	$611,750.00	N/A	$0.00	N/A
Total for all systems	$2,764,653.00	$2,539,633.00	N/A	$0.00	N/A

Components

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	**$167,193.00**	**$119,753.00**		**$0.00**	
Additional Legal Expenses	***$10,000.00***	$10,000.00	Additional legal expenses for advice and counsel on repack transition for University-owned public broadcasting operation providing "sole service" PBS station in Columbus, OH market	N/A	N/A
Quarterly Progress Reports	***$5,000.00***	$5,000.00	Prepare and file FCC-required Quarterly Progress Reports on Schedule 387 during station repack process.	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$40,000.00	N/A	N/A	N/A

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A

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
Project management of the transition	$23,700.00	$22,500.00	Estimating 150 hours at $150 per hour	N/A	N/A
Transmitter Site Site Survey	***$12,003.00***	$12,003.00	Survey was conducted by Gates Air to inform planning. Total survey cost was $18,403, however $6400 RF sweep was broken out for inclusion in antenna section.	N/A	N/A
Sub-total	$167,193.00	$119,753.00	N/A	$0.00	N/A
Total for all systems	$2,764,653.00	$2,539,633.00	N/A	$0.00	N/A

Components

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	**$62,650.00**	**$62,650.00**		**$0.00**	
MVPD Notification of Channel Change	***$2,500.00***	$2,500.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$30,000.00***	$30,000.00	Includes decommission and removal of old transmitter from building, removal of transmitter and old antenna from the site	N/A	N/A
Develop and air announcement of upcoming channel change	***$8,000.00***	$8,000.00	Including production and broadcast	N/A	N/A
Non-zoning permits	***$1,750.00***	$1,750.00	County and State permits and inspections	N/A	N/A
Equipment Delivery and Handling Charges	***$20,000.00***	$20,000.00	Shipping, handling and placement.	N/A	N/A

Local Zoning	***$400.00***	$400.00	Genoa township zoning (construction) permits and inspections.	N/A	N/A
Sub-total	$62,650.00	$62,650.00	N/A	$0.00	N/A
Total for all systems	$2,764,653.00	$2,539,633.00	N/A	$0.00	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$2,764,653.00	$2,539,633.00	$0.00

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.	**Geoffrey S. Chatas** *Senior VP and CFO, The Ohio State University* 07/13/2017

Attachments