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: **28476** | Service: **DTV** | Call Sign: **WDRB** | Channel: **32 (UHF)**

File Number: **0000028687**

FRN: **0003189248** | Date Submitted: **11/19/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
INDEPENDENCE TELEVISION COMPANY	Keith Wilkowski 624 W. MUHAMMAD ALI BLVD LOUISVILLE, KY 40203 United States	+1 (419) 277-6006	kwilkowski@blockcommunications.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
Gary Schroder *Chief Engineer* *WDRB-Independence Television*	Steve Ballard 624 W. Muhammad Ali Louisville, KY 40203 United States	+1 (502) 584-6441	sballard@wdrb.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.	Yes
Briefly describe transition plan	The FCC allocated us two frequencies that aren't adjacent to each other (16 & 32). This combination will require 4 antennas and 4 feedlines. The existing tower will not support that much weight. We request to construct a new tower with a "T" top design.

Transmitters

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

Auxiliary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Aux /Standby transmitter
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	No
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	CZ1000
	Year	2002
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	UAXTE-2R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1 kW
	Justification for New Transmitter	Our present Aux transmitters are no longer supported for repair or retuning by the manufacturer.

Auxiliary 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	Yes
	Size	2 inches
	Length	100.0 feet

	Other Electrical Service	No
	Description	N/A
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?	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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
RF Switch	We will need an additional RF switch for the Aux transmitter

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	DCX Millineum
	Year	2005
	Type	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?	Yes
	Manufacturer	
	Model	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	58 kW
	Justification for New Transmitter	Comark, Our present transmitter manufacturer will not support the retuning of our existing IOT transmitters. Our intention is to replace them. We will pay extra for a model with power ratings for ATSC 3.0.

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	100.0 feet
	Other Electrical Service	Yes
	Description	Two transmitters, main and Aux will need to be wired simultaneously.
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?	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
RF Accessories	RF dummy load, 4 port switch, switch controller
Mask Filter	ATSC Mask filter Kit

Demolition	To prepare for the installation of the new transmitters, we will be required to remove 3 beam transformers, filled with mineral oil.
Installation and proof	Installation of transmitter and proof of performance

Antennas

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

Auxiliary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Aux /Standby antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	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	Side 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)	1000.0 kW
Manufacturer	
Model	TFU-32DSB-R04TC
Year	2005

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
34167	WBKI

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Aux /Standby
	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	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	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)	724.0 kW
	Manufacturer	

	Model	ATW16H3-ESCX-32H
	Year	2018
	Justification for New Antenna	Require new antenna due to new frequency allocation. Costs listed reflect a $15,500.00 up charge for ATSC 3.0 compliant (Elliptical) antenna.

Auxiliary 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?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Auxiliary Antenna

Other Antenna Cost Not Listed

Information not provided.

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?	Yes
	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)	1000.0 kW

Manufacturer	
Model	TFU-32-GTH-R-06
Year	2009

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
34167	WBKI

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	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	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)	1000.0 kW
	Manufacturer	

	Model	ATW25H3-ET0-32H
	Year	2018
	Justification for New Antenna	Require new antenna due to new frequency allocation. Costs listed reflect a $15,500.00 up charge for ATSC 3.0 compliant (Elliptical) 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	7 3/16 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?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary 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

Auxiliary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Aux/standby
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	960 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
34167	WBKI

Auxiliary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Aux /Standby
	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	1040 feet per run
	Justification for New Transmission Line	Required due to new frequency allocation.

Auxiliary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Dehydrator	New dehydrator required for six and one eighth inch line.

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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1043 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
34167	WBKI

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	7 3/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1123 feet per run
	Justification for New Transmission Line	Required due to new frequency allocation.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Dehydrator	New Dehydrator required for seven and three sixteenths inch line.

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

Add 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	1028421
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 21' 00.0" N-
	Longitude (NAD83)	085° 50' 57.0" W-
	Overall Structure Height	999.99 feet
	Support Structure Height	944.87 feet
	Ground Elevation Above Mean Sea Level (AMSL)	960.95 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Independence Television
Date Constructed	12/01/1972

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
34167	WBKI	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	999.99 feet
	Justification for New Tower	The FCC allocated us two frequencies that aren't adjacent to each other (16 & 32). This combination will require 4 antennas and 4 feedlines. The existing tower will not support that much weight. We request to construct a new tower with a "T" top design.

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
Foundation	Concrete work for pier and anchors
Transmission line designs	Design drawings of transmission lines
Rental of heavy equipment	Rental of a Sky-jack to off load transmitters and other equipment.
Electric	Provide electricity to base of tower for lighting and ENG antennas.
Installation services	Installation of two WDRB antennas and two WDRB feedlines. Remove old equipment from existing tower and mount on new tower.
Asphalt repair	Funds needed to repair the existing asphalt surface of the tower area after construction,
State taxes	State taxes at 7% for the new tower
Install tower and ice bridge	Charges for the installation of the tower and new ice bridge
Demolition	Removal of old tower and all apparatuses not utilized.
Purchase seven and three sixteenth inch hangers	Utilized to hang seven and three sixteenth inch feedline
Fence removal and installation	Costs for removing existing fence and installing new fence around new tower and guy anchors.
Shipping Freight	Freight charges for tower components
Purchase six and one eighth inch hangers	Utilized to hang six and one eighth inch feedline

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
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)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	14
	Justification	Taking signal measurements of predetermined radials which will be used to compare after transition.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
RF Consultant D. Everist	Rf Consultant that files Engineering studies on our behalf.

Advanced site survey GA999TS	Site survey performed by transmitter manufacturer.
Existing-Tower Inspection	Coast-To-Coast Tower performed an inspection for us on the existing tower
Structural Engineering Analysis of Tower	Mark Malouf performed a total of three (to date) structural tower analysis on the WMYO/WDRB existing tower.

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?	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

Other Expenses Not Listed

Name	Description
Project management fees internal	Cost of station personnel man hours working on repack planning

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-72	**$2,066,795.30**	**$1,502,408.26**		**$489,669.41**	
Installation and proof	***$82,198.75***	$82,198.75	GatesAir Quote Q-65984	$27,399.58	N/A
Demolition	***$4,500.00***	$4,500.00	N/A	$4,500.00	N/A
Mask Filter	***$70,637.32***	$70,637.32	GatesAir Quote Q-65984	$23,545.77	N/A
RF Accessories	***$41,959.23***	$41,959.23	GatesAir Quote Q-65984	$13,986.41	N/A
Other Electrical Service: Two transmitters, main and Aux will need to be wired simultaneously.	***$37,500.00***	$37,500.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	$5,200.00	$4,900.00	N/A	N/A	N/A
Transformer 3 phase/480v - 300 KVA	$36,800.00	$12,998.82	GatesAir Quote Q-65984	$4,332.94	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	$1,788,000.00	$1,247,714.14	GatesAir Quote Q-65984	$415,904.71	N/A

Auxiliary Transmitter UAXTE-2R37	**$178,059.00**	**$158,624.24**		**$0.00**	
RF Switch	***$23,909.00***	$23,909.00	N/A	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	$2,600.00	$2,500.00	N/A	N/A	N/A
Transformer 3 phase/480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	$126,000.00	$107,915.24	N/A	N/A	N/A
Sub-total	$2,244,854.30	$1,661,032.50	N/A	$489,669.41	N/A
Total for all systems	$6,361,147.30	$5,337,738.50	N/A	$1,196,693.85	N/A

Components

Actual Information Description	**File Name**	
Installation and proof	**Component Description:** **Amount:**	Installation and Proof (1/3 Down Payment) $27,399.58
Demolition	**Component Description:** **Amount:**	Labor for transmitter Demolition project $4,500.00

Mask Filter	**Component Description:** **Amount:**	Mask Filter System (1/3 Down Payment) $23,545.77
RF Accessories	**Component Description:** **Amount:**	RF Accessories (1/3 Down Payment) $13,986.41
Other Electrical Service: Two transmitters, main and Aux will need to be wired simultaneously.	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 300 KVA	**Component Description:** **Amount:**	Electrical (1/3 Down Payment) $4,332.94
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	**Component Description:** **Amount:**	Primary Transmitter $415,904.71
RF Switch	Information not provided.	
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 150 KVA	Information not provided.	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	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
Primary Antenna ATW25H3-ET0-32H	**$315,390.00**	**$216,717.00**		**$113,509.97**	
Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	$5,260.00	$5,000.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	$13,900.00	$27,192.00	This is the price quoted by ERI for all the elbows in the line (12). Actual cost may change after we pay for the transmission line design.	$5,410.22	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$1,387.50	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$178,125.00	N/A	$106,712.25	N/A
Auxiliary Antenna ATW16H3-ESCX-32H	**$191,190.00**	**$181,054.00**		**$49,973.82**	
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$13,000.00	N/A	$3,900.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 724 kW input, elliptically or circularly polarized	***$143,750.00***	$143,750.00	N/A	$43,125.00	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$12,904.00	This is the cost figure the manufacture had listed for the elbow complex.	$2,948.82	N/A
Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	$5,260.00	$5,000.00	N/A	N/A	N/A
Sub-total	$506,580.00	$397,771.00	N/A	$163,483.79	N/A
Total for all systems	$6,361,147.30	$5,337,738.50	N/A	$1,196,693.85	N/A

Components

Actual Information Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	**Component Description:** Primary Antenna - Elbow Complex 7 3/16" **Amount:** $5,410.22

Sweep test of existing antenna	**Component Description:** **Amount:**	WDRB-210-Primary Antenna - Sweep Test $1,387.50
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	WDRB-210-Primary Antenna - UHF High Power Top Mount $106,712.25
Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	WDRB-250-Auxiliary Antenna - Side Mount Brackets High Power Antenna $3,900.00
UHF - High Power, Side Mount, basic slot antenna, 724 kW input, elliptically or circularly polarized	**Component Description:** **Amount:**	WDRB-250-Auxiliary Antenna - UHF High Power Side Mount $43,125.00
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	WDRB-250-Auxiliary Antenna - Elbow Complex 6 1/8" $2,948.82
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	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	**$336,640.00**	**$300,052.00**		**$91,974.79**	
Dehydrator	***$10,970.00***	$10,970.00	N/A	$2,797.35	N/A
Rigid Transmission Line - copper, 7 3 /16"	$325,670.00	$289,082.00	N/A	$89,177.44	N/A
Auxiliary Transmission Line	**$221,050.00**	**$151,189.00**		**$46,525.01**	
Dehydrator	***$10,970.00***	$10,970.00	N/A	$2,797.35	N/A
Rigid Transmission Line - copper, 6 1/8"	$210,080.00	$140,219.00	N/A	$43,727.66	N/A
Sub-total	$557,690.00	$451,241.00	N/A	$138,499.80	N/A
Total for all systems	$6,361,147.30	$5,337,738.50	N/A	$1,196,693.85	N/A

Components

Actual Information Description	File Name
Dehydrator	**Component Description:** WDRB-310-Primary Transmission Line - Dehydrator **Amount:** $2,797.35

Rigid Transmission Line - copper, 7 3/16"	**Component Description:** **Amount:**	Primary Transmission Line - Rigid Transmission Line 7 3/16" $89,177.44
Dehydrator	**Component Description:** **Amount:**	WDRB-350-Auxiliary Transmission Line - Dehydrator $2,797.35
Rigid Transmission Line - copper, 6 1/8"	**Component Description:** **Amount:**	WDRB-350-Auxiliary Transmission Line - Rigid Transmission Line 6 1/8" $43,727.66

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	**$2,791,625.00**	**$2,581,126.00**		**$382,555.65**	
Transmission line designs	***$9,250.00***	$9,250.00	N/A	$2,775.00	N/A
New tower	***$1,250,000.00***	$1,250,000.00	N/A	$144,595.50	N/A
Install tower and ice bridge	***$625,000.00***	$625,000.00	N/A	$205,875.15	N/A
Installation services	***$89,286.00***	$89,286.00	N/A	$7,650.00	N/A
Foundation	***$200,000.00***	$200,000.00	N/A	$21,660.00	N/A
State taxes	***$134,843.00***	$134,843.00	N/A	N/A	N/A
Shipping Freight	***$11,696.00***	$11,696.00	N/A	N/A	N/A
Asphalt repair	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Purchase seven and three sixteenth inch hangers	***$55,413.00***	$55,413.00	N/A	N/A	N/A
Electric	***$2,500.00***	$2,500.00	N/A	N/A	N/A
Purchase six and one eighth inch hangers	***$29,922.00***	$29,922.00	N/A	N/A	N/A

Fence removal and installation	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	$210,500.00	$1.00	Cost reflected in new tower expense	N/A	N/A
Demolition	***$160,715.00***	$160,715.00	N/A	N/A	N/A
Rental of heavy equipment	***$2,500.00***	$2,500.00	N/A	N/A	N/A
Sub-total	$2,791,625.00	$2,581,126.00	N/A	$382,555.65	N/A
Total for all systems	$6,361,147.30	$5,337,738.50	N/A	$1,196,693.85	N/A

Components

Actual Information Description	File Name	
Transmission line designs	**Component Description:**	Construct New Tower - Transmission Line designs (Primary & Aux)
	Amount:	$2,775.00
New tower	**Component Description:**	Survey of new tower location and support cables. Fieldwork. Drawing and process data.
	Amount:	$1,042.50
	Component Description:	Construct New Tower - New Tower
	Amount:	$143,553.00

Install tower and ice bridge	**Component Description:** **Amount:**	Construct New Tower - Install Tower and Ice Bridge $205,875.15
Installation services	**Component Description:** **Amount:**	Construct New Tower - Installation Services $7,650.00
Foundation	**Component Description:** **Amount:**	WDRB-480-Construct New Tower - Foundation $21,660.00
State taxes	Information not provided.	
Shipping Freight	Information not provided.	
Asphalt repair	Information not provided.	
Purchase seven and three sixteenth inch hangers	Information not provided.	
Electric	Information not provided.	
Purchase six and one eighth inch hangers	Information not provided.	
Fence removal and installation	Information not provided.	
Tall Tower (greater than 500')	Information not provided.	
Demolition	Information not provided.	
Rental of heavy equipment	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	**$217,318.00**	**$211,053.00**		**$22,485.20**	
Structural Engineering Analysis of Tower	***$16,300.00***	$16,300.00	Per invoice	$9,300.00	N/A
Existing-Tower Inspection	***$5,000.00***	$5,000.00	N/A	$5,000.00	N/A
Advanced site survey GA999TS	***$17,353.00***	$17,353.00	N/A	$8,185.20	N/A
RF Consultant D. Everist	***$50,000.00***	$50,000.00	N/A	N/A	N/A
Additional Field Engineering Service, 14 Days	***$11,650.00***	$11,650.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	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 engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	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 and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	N/A	N/A

Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	N/A
Sub-total	$217,318.00	$211,053.00	N/A	$22,485.20	N/A
Total for all systems	$6,361,147.30	$5,337,738.50	N/A	$1,196,693.85	N/A

Components

Actual Information Description	File Name	
Structural Engineering Analysis of Tower	**Component Description:** **Amount:**	Site plan and survey of broadcast tower $5,800.00
	Component Description: **Amount:**	Structural Analysis $3,500.00
Existing-Tower Inspection	**Component Description:** **Amount:**	Completion of complete tower inspection at WDRB TV tower. $5,000.00
Advanced site survey GA999TS	**Component Description:** **Amount:**	Site Survey $8,185.20

RF Consultant D. Everist	Information not provided.
Additional Field Engineering Service, 14 Days	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
ASR modification (prepare FCC Form 854)	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 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.
Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Perform engineering study for new channel assignment and antenna development	Information not provided.
Prepare request for Special Temporary Authorization	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	**$43,080.00**	**$35,515.00**		**$0.00**	
Project management fees internal	***$15,000.00***	$15,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	***$1,000.00***	$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$1,000.00***	$1,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$4,000.00***	$4,000.00	N/A	N/A	N/A
Non-zoning permits	***$3,000.00***	$3,000.00	N/A	N/A	N/A
Local Zoning	***$7,000.00***	$7,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$325.00	N/A	N/A	N/A

DTV Medical Facility Notification	$11,550.00	$4,000.00	N/A	N/A	N/A
Sub-total	$43,080.00	$35,515.00	N/A	$0.00	N/A
Total for all systems	$6,361,147.30	$5,337,738.50	N/A	$1,196,693.85	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$6,361,147.30	$5,337,738.50	$1,196,693.85

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.	**Gary Schroder , Schroder .** *Chief Engineer* 11/19/2018

Attachments