



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **53863** | Service: **DTV** | Call **WIPM-TV** | Channel: **32 (UHF)** |  
ID: | Sign:  
File **0000028575**  
Number:  
FRN: **0005832233** | Date **10/22**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>PUERTO RICO PUBLIC BROADCASTING CORPORATION</b> Doing Business As: PUERTO RICO PUBLIC BROADCASTING CORPORATION	Dr. Rafael Batista Cruz PO Box 190909 Urb. Baldrich HATO REY, PR 00918 United States	+1 (787) 766-0505	Avazquez@wipr.pr	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
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<b>Alejandro Luciano Luciano</b> <b>, PE .</b> <i>Consultant Engineer</i> <i>Alejandro Luciano PE</i>	Alejandro Luciano PE PO Box 194528 SAN JUAN, PR 00919 United States	+1 (787) 717- 6984	aluciano@aluciano. com
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**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	File for CP as needed, Perform Towers Structural Study, modify tower as needed, build Interim facilities, remove existing transmitter and install new transmitter and antennas. Sweep antennas test and transition to new channel.

**Transmitters**

Section	Question	Response
<b>Transmitter Related Expenses</b>	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	PWR60D2
	Year	2010
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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	Parallax
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50 kW
	Justification for New Transmitter	GatesAir, indicates the cost of the modifications of the IOT transmitters plus rental of similar power transmitter to remain on the air will exceed the cost of a new S.S. transmitter. Documents attesting the above will be submitted as soon as received

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
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<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes
	Size	2 inches
	Length	350.0 feet
	Other Electrical Service	Yes
	Description	Panel Main Breakers and disconnect switches for transmitter, heat exchanger, cooling pumps etc.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
	Information not provided.

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	V75_03_UHF_SD_PCM-PPT
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	5.4 kW
	Justification for New Transmitter	IN ORDER TO TRANSITION TO THE NEW CHANNEL BY THE AUGUST 1ST 2018 DEADLINE WIPM WILL NEED AN INTERIM TRANSMITTER TO REMAIN ON THE AIR AND MAINTAIN LIMITED COVERAGE WHILE THE MAIN ANTENNA STACK IS REPLACED.

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	Yes

	Size	2 inches
	Length	250.0 feet
	Other Electrical Service	Yes
	Description	AC PANEL, BREAKERS AND DISCONNECT SWITCHES FOR TRANSMITTER AND HEAT EXCHANGER, COOLING PUMPS ETC.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	No

**Interim Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.



**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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?	Yes
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	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) .....	620.0 kW

Manufacturer	
Model	TFU- 22GBH O8SP
Year	2000

Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	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) .....	571.0 kW
	Manufacturer	

Model	TFU-22GBH /VP-R 08SP
Year	2018
Justification for New Antenna	Accordig to Dielectric, the existing antenna manufacturer, the present ch. 35 antenna can't be modified and.or retuned to ch. 32 the post repack WIPM assigned channel.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	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

<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Name		Description
RTT675		Test Transition 6-75

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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?	Yes
<b>New Antenna Manufacturer and Type</b>	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) .....	100.0 kW
	Manufacturer	
	Model	PSILPD16AOC-32
	Year	2018

Justification for New Antenna	In order to transition to the new Ch. 32 by the August 1st deadline an Interim antenna is needed to remain on the air at reduced power while the existing Ch. 35 and 23 antenna stack is removed and replaced with a new Ch. 31 and 32 antenna stack.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## 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	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	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	500 feet per run

Primary

Other Transmission Line Expenses Not Listed

Transmission Line

Information not provided.

Interim

New Transmission Line

Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	370 feet per run
	Justification for New Transmission Line	In order to transition to the new channel by the August 1st deadline an interim line is needed to remain on the air while the existing ch. 35 and 23 antenna stack is removed and replaced with a ch. 31 and 32 antenna stack.

Interim  
Transmission Line

Other Transmission Line Expenses Not Listed

Name		Description
Dehydrator		Transmission Line Dehydrator

**Tower  
Equipment  
And  
Rigging  
Costs**

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

**Auxiliary  
Tower**

**Add Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	iNTERIM TOWER
	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?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1011495
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	18° 08' 52.8" N-
	Longitude (NAD83)	066° 58' 58.6" W-
	Overall Structure Height	413.05 feet
	Support Structure Height	272.31 feet
	Ground Elevation Above Mean Sea Level (AMSL)	2952.06 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	PUERTO RICO PUBLIC BROADCASTING CORP
Date Constructed	01/01/1971

**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
71725	WOLE-DT	DTV

## Auxiliary Tower

### Tower Modification Costs

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

## Auxiliary Tower

### Tower Rigging Costs

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

**Auxiliary  
Tower**

**Other Tower Expenses Not Listed**  
Information not provided.

## Primary Tower

### Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Terrain Constrained
	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	1237284
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	18° 08' 53.1" N-
	Longitude (NAD83)	066° 58' 58.6" W-
	Overall Structure Height	404.85 feet
	Support Structure Height	306.10 feet
	Ground Elevation Above Mean Sea Level (AMSL)	2893.01 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	Televiscentro of Puerto Rico, LLC
	Date Constructed	03/01/2003

**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
58342	WJWN-TV	DTV
73336	WNJX-TV	DTV

**Primary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Terrain constrained
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.



**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	1000
	Explanation	Due to extreme budget constrains WIPR does not have the necessary technical staff to perform the project management for the repack.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A

<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	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
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside  
Professional

Other Professional Services Expenses Not Listed

Services Costs

Name	Description
Quarterly Progress Reports.	Prepare and File Quarterly Repack Progress Report

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	Local Zoning	Yes
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	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
<b>8 poles Adjacent Channel Filter.</b>	WIPM and WNJX are on a stack, their RC separated by 38 ft., with WJWN antenna side mounted on that tower. After repack WIPM will be Ch. 32, WNJX Ch.31 and WJWN Ch. 33. A filter is needed to preclude interaction to WIPM from channels 31 and 33 emissions.
<b>Station Employees Time</b>	Station Employees Time dedicated to repack functions. See Attached Document
<b>System Design and Site Survey</b>	Transmitter system design and site survey.
<b>Motorized Switch</b>	Motorized Switch for antenna o dummy load selection.

## 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 Justification
<b>Interim Transmitter V75_03_UHF_SD_PCM-PPT</b>	<b>\$298,000.00</b>	<b>\$182,425.00</b>		<b>\$158,175.00</b>	
Other Electrical Service: AC PANEL, BREAKERS AND DISCONNECT SWITCHES FOR TRANSMITTER AND HEAT EXCHANGER, COOLING PUMPS ETC.	<i>\$18,000.00</i>	\$18,000.00	As per previous experience during the analog to digital transition and site remote location.	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$6,500.00	\$6,250.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$158,175.00	See attached Broadcast Depot Proposal 205154.	\$158,175.00	N/A
<b>Primary Transmitter Parallax</b>	<b>\$1,500,100.00</b>	<b>\$1,426,750.00</b>		<b>\$0.00</b>	
Other Electrical Service: Panel Main Breakers and disconnect switches for transmitter, heat exchanger, cooling pumps etc.	<i>\$18,000.00</i>	\$18,000.00	Based on previous experience during the analog to digital transition and electrical suppliers consultations	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$9,100.00	\$8,750.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,400,000.00	N/A	\$0.00	N/
<b>Sub-total</b>	\$1,798,100.00	\$1,609,175.00	N/A	\$158,175.00	N/
<b>Total for all systems</b>	\$3,694,826.81	\$3,453,681.76	N/A	\$380,970.16	N/

## Components

Actual Information	
Description	File Name
Other Electrical Service: AC PANEL, BREAKERS AND DISCONNECT SWITCHES FOR TRANSMITTER AND HEAT EXCHANGER, COOLING PUMPS ETC.	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<div> <b>Component Description:</b> WIPM Auxiliary Transmitter Invoice Total. </div> <div> <b>Amount:</b> \$158,175.00 </div>
Other Electrical Service: Panel Main Breakers and disconnect switches for transmitter, heat exchanger, cooling pumps etc.	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 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
<b>Interim Antenna PSILPD16AOC-32</b>	<b>\$96,130.00</b>	<b>\$30,350.00</b>		<b>\$23,950.00</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$23,950.00	See WIPM Aux Antenna Expense Explanation Cover Letter, Invoice and Proposal.	\$23,950.00	N/A
<b>Primary Antenna TFU-22GBH/VP-R 08SP</b>	<b>\$310,799.00</b>	<b>\$401,662.00</b>		<b>\$180,747.90</b>	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,826.00	See attached Dielectric quote 700203CMZ Items 2 and 3	\$5,771.70	N/A



RTT675	\$2,269.00	\$2,269.00	Antenna Test transition. See attached Dielectric Antenna Quote 700203CMZ Line 4.	\$1,021.05	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$380,167.00	This is a Top Mount Bottom of Stack Antenna. See attached Dielectric quote 700203CMZ.	\$171,075.15	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$2,880.00	N/A
<b>Sub-total</b>	\$406,929.00	\$432,012.00	N/A	\$204,697.90	N/A
<b>Total for all systems</b>	\$3,694,826.81	\$3,453,681.76	N/A	\$380,970.16	N/A

## Components

Actual Information	
Description	File Name
Sweep test of existing antenna	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<p><b>Component Description:</b> Propagation Systems Invoice Number PF-WIPMTV</p> <p><b>Amount:</b> \$23,950.00</p>

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<p><b>Component Description:</b></p> <p>Elbow Complex and T/L6-75, items 3 and 4 on invoice MAN00413. See Attached WIPM Main Antenna 45% deposit Explanation cover letter-Proposal and Invoice document</p> <p><b>Amount:</b></p> <p>\$5,771.70</p>
RTT675	<p><b>Component Description:</b></p> <p>Invoice MAN 00413 line 5 TRANS TEST 6-75 45% deposit See Attached WIPM Main Antenna 45% deposit Explanation cover letter-Proposal and Invoice document</p> <p><b>Amount:</b></p> <p>\$1,021.05</p>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p><b>Component Description:</b></p> <p>WIPM Main Antenna 45% deposit See Attached WIPM Main Antenna 45% deposit Explanation cover letter-Proposal and Invoice document</p> <p><b>Amount:</b></p> <p>\$171,075.15</p>

Sweep test of existing antenna	<div><div><b>Component Description:</b></div><div>45% deposit on Item Repack Sweep, Line 6 on invoice MAN00413. See Attached WIPM Main Antenna 45% deposit Explanation cover letter-Proposal and Invoice document</div><div><b>Amount:</b></div><div>\$2,880.00</div></div>
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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
Interim Transmission Line	\$23,739.11	\$14,719.06		\$14,719.06	
Flexible Air Transmission Line - dielectric, 3"	\$21,830.00	\$12,809.95	See WIPM Aux TX Line Expense Explanation Cover Letter, Invoice and Proposal document.	\$12,809.95	N/A
Dehydrator	<i>\$1,909.11</i>	\$1,909.11	See Item AP20-D Dehydrator in WIPM Aux Transmission Line Expense Explanation Cover Letter, Invoice and Proposal document.	\$1,909.11	N/A
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$23,739.11	\$14,719.06	N/A	\$14,719.06	N/A
Total for all systems	\$3,694,826.81	\$3,453,681.76	N/A	\$380,970.16	N/A

Components

Actual Information Description	File Name
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Flexible Air Transmission Line - dielectric, 3"	<b>Component Description:</b>  <b>Amount:</b>	Transmission Line Components Invoice Excluding Dehydrator \$12,809.95
Dehydrator	<b>Component Description:</b>  <b>Amount:</b>	Transmission Line Dehydrator Cost. \$1,909.11

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
Auxiliary Tower TOWER	\$531,500.00	\$505,000.00		\$0.00	
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Primary Tower TOWER	\$421,000.00	\$400,000.00		\$0.00	

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	The requested amount is for the removal and installation of WIPM antenna, WIPM is at the bottom of an antenna stack, that stack has to be removed in order to replace the bottom antenna. The original year 2000 installation cost was \$295,000.00	N/A	N/A
<b>Sub-total</b>	\$952,500.00	\$905,000.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,694,826.81	\$3,453,681.76	N/A	\$380,970.16	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
<b>Outside Professional Services</b>	<b>\$227,640.00</b>	<b>\$215,400.00</b>		<b>\$0.00</b>	
Quarterly Progress Reports.	<i>\$2,150.00</i>	\$2,150.00	Estimated Fee for Quarterly Repack Progress Report Documents preparation and filling.	\$0.00	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	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	\$7,360.00	\$7,000.00	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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	\$4,100.00	\$3,000.00	N/A	N/A	N/A
Project management of the transition	\$158,000.00	\$150,000.00	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 engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	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
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
<b>Sub-total</b>	\$227,640.00	\$215,400.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,694,826.81	\$3,453,681.76	N/A	\$380,970.16	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
<b>Other Expenses</b>	<b>\$285,918.70</b>	<b>\$277,375.70</b>		<b>\$3,378.20</b>	
Motorized Switch	<i>\$4,835.00</i>	\$4,835.00	Motorized switch for antenna or dummy load, existing system has a motorized switch for that purpose. See Attached Comark transmitter proposal.	N/A	N/A
System Design and Site Survey	<i>\$15,300.00</i>	\$15,300.00	Transmitter system design and site survey as per attached Comark Television transmitter proposal	N/A	N/A
Station Employees Time	<i>\$80,777.50</i>	\$80,777.50	See WIPM Employees Repack Hours Estimate attached Excel worksheet	N/A	N/A

8 poles Adjacent Channel Filter.	<b>\$80,000.00</b>	\$80,000.00	Estimated price High Power Adjacent Channel Filter based on manufacturer consultation. Final quote price to be provided as soon as received.	N/A	N/A
MVPD Notification of Channel Change	<b>\$316.20</b>	\$316.20	See "WIPM DTVNotification MVPD Expense Explanation Cover Letter, Proposal and Invoice" document.	\$316.20	N/A
Develop and air announcement of upcoming channel change	<b>\$20,000.00</b>	\$20,000.00	Based on previous experience during the analog to digital transition.	N/A	N/A
Equipment Storage	<b>\$7,000.00</b>	\$7,000.00	Based on previous experience during the analog to digital transition.	N/A	N/A
Equipment Delivery and Handling Charges	<b>\$50,000.00</b>	\$50,000.00	See attached ground transportation quotations and Relocation administrator request for additional information attached document.	N/A	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$4,500.00</b>	\$4,500.00	Based on previous experience during the analog to digital transition.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,062.00	See "WIPM DTVNotification Medical Expense Explanation Cover Letter, Estimate and Invoice" uploaded document.	\$3,062.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	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
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Local Zoning	<b>\$10,000.00</b>	\$10,000.00	Based on previous experience. Local authority estimated fees for tower work permits.	N/A	N/A
<b>Sub-total</b>	\$285,918.70	\$277,375.70	N/A	\$3,378.20	N/A
<b>Total for all systems</b>	\$3,694,826.81	\$3,453,681.76	N/A	\$380,970.16	N/A

## Components

Actual Information	
Description	File Name
Motorized Switch	Information not provided.
System Design and Site Survey	Information not provided.
Station Employees Time	Information not provided.
8 poles Adjacent Channel Filter.	Information not provided.
MVPD Notification of Channel Change	<div> <div>Component Description:</div> <div>WIPM MVPD Notifications. DTVNotification Invoice: INV-001808</div> </div> <div> <div>Amount:</div> <div>\$316.20</div> </div>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
DTV Medical Facility Notification	<div> <div>Component Description:</div> <div>WIPM Medical Notifications. DTVNotification Invoice: INV-001813</div> </div> <div> <div>Amount:</div> <div>\$3,062.00</div> </div>
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.

FCC Filing Fees - Special Temporary Authorization request	Information not provided.
Local Zoning	Information not provided.

**Cost  
Information****Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$3,694,826.81	\$3,453,681.76	\$380,970.16

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
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	<p>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.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Alejandro Luciano , PE .</b> <i>Repack Project Manager</i></p> <p>10/22/2018</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Alejandro Luciano , PE .</b> <i>Repack Project Manager</i></p> <p>10/22/2018</p>

## Attachments