

(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 **05/29**  
 Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>PUERTO RICO PUBLIC BROADCASTING CORPORATION</b>	Dr.Rafael Batista Cruz	+1 (787) 766-0505	Avazquez@wipr.pr	Government Entity
Doing Business As: PUERTO RICO PUBLIC BROADCASTING CORPORATION	PO Box 190909  Urb. Baldrich  HATO REY, PR 00918  United States			

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
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[Confidential]

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Alejandro Luciano Luciano, PE .</b>	Alejandro Luciano PE	+1 (787) 717-6984	aluciano@aluciano.com
<i>Consultant Engineer</i>	PO Box 194528		
<i>Alejandro Luciano PE</i>	SAN JUAN, PR 00919		
	United States		

## Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or	Yes

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.

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
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	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
<b>New Transmitter</b>	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	HPTV-PRLX-U32
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 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.

**Primary  
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	350.0 feet
	Other Electrical Service	Yes
	Description	Panel Main Breakers and disconnect switches for transmitter, heat exchanger, cooling pumps etc.

**Primary  
Transmitter**

<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Other Size	N/A
	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>Other Transmitter Cost Not Listed</b>		
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

**Interim  
Transmitter**

<b>Transmitter Building Addition /Modification or Leasehold Improvement</b>	Size	N/A
	Other Size	N/A
	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
<b>Channel 14 Costs</b>	Size	N/A
	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
<b>Inside RF System</b>	Is additional field engineering time needed?	N/A
	Number of Days	N/A
	Is an additional interior RF system required to support this interim transmitter?	No

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**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
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?	Yes
	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Slotted Coaxial
Existing Antenna Manufacturer and Type	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:	620.0 kW
	Manufacturer	
	Model	TFU- 22GBH O8SP
	Year	2000

**Primary Antenna****New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
	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
<b>New Antenna Manufacturer and Types</b>	Other Antenna Type	N/A
	ERP:	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
<b>Elbow Complex</b>	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 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
	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:	100.0 kW
<b>New Antenna Manufacturer and Type</b>	Manufacturer	
	Model	PSILPD16AOC-32
	Year	2018
	Justification for New Antenna	In order to transition to hte 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.

**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

**Other Transmission Line Expenses Not Listed**

Information not provided.

**Primary  
Transmission  
Line****New Transmission Line****Interim  
Transmission  
Line**

Section	Question	Response
	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

**New Transmission Line  
Costs**

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)	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
	Please what type of engineering study is	Study needed



Auxiliary Tower

Engineering Study	required, if any:	for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

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
	Latitude (NAD83)	18° 08' 53.1" N-
Coordinates (NAD83)	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	Televicentro 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
	Complex Tower	Terrain

Primary Tower

Tower Rigging Costs		constrained
Helicopter Services Required	Are helicopter services required?	No

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
	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
<b>Attorney and Other Outside Consulting Services</b>	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

**Outside  
Professional  
Services Costs**

<b>RF Field Engineering Services</b>	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
	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

**Other Professional Services Expenses Not Listed**

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
	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
<b>Facility Expenses</b>	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Local Zoning	Yes
	Non-zoning permits	No
<b>Permit and Filing Costs</b>	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>Motorized Switch</b>	Motorized Switch
<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>	System Design and Site Survey

## 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
<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>
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
2" Rigid Conduit and Wiring (Cost per foot)	\$6,500.00	\$6,250.00	N/A	N/A
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
<b>Primary Transmitter HPTV-PRLX-U32</b>	<b>\$3,288,100.00</b>	<b>\$2,306,050.00</b>		<b>\$849,000.00</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
2" Rigid Conduit and Wiring (Cost per foot)	\$9,100.00	\$8,750.00	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,430,300.00	See Hitachi Kokusai Electric Comark LLC Proposal P#3183PRLXU32-091817-R2 excluding Item 2.1, PN T5 Motorized Switch and Item 2.2, PN S16 Transmitter System Crating and Transportation to port of Puerto Rico.	\$849,000.00
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$849,000.00	***System Notice: Estimate adjusted and locked because	\$0

line has been superseded.  
 \*\*\*See WIPM Main Transmitter Proposal P#3183PRLXU32-091817-R2 Including Item 2.4, 8 Pole Filter. Items 2.1 Motorized Switch, 2.2 Transmitter System Crating and 2.3 System Design & Site Survey are excluded from above estimate.

<b>Sub-total</b>	\$3,586,100.00	\$2,488,475.00	N/A	\$1,007
<b>Total for all systems</b>	\$5,503,366.81	\$4,353,521.76	N/A	\$1,451

## Components

Actual Information Description	File Name
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<p><b>Component Description:</b> WIPM Auxiliary Transmitter Invoice Total.</p> <p><b>Amount:</b> \$158,175.00</p>
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Other Electrical Service: AC PANEL, BREAKERS AND DISCONNECT SWITCHES FOR TRANSMITTER AND HEAT EXCHANGER, COOLING PUMPS ETC.	Information not provided.
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 52 - 61 kW	<p><b>Component Description:</b> Initial 60% Payment on WIPM main transmitter. See</p>



		Explanation letter for details. \$849,000.00
	<b>Amount:</b>	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<b>Component Description:</b>	60% on WIPM Main Transmitter Proposal including SYSTEM WIPM U32 D35 and MISC-AUX Item 2.4 PN NS1 8 Pole Filter.
	<b>Amount:</b>	\$849,000.00

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## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Justification
<b>Interim Antenna PSILPD16AOC-32</b>	<b>\$96,130.00</b>	<b>\$30,350.00</b>		<b>\$23,950.00</b>	
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	I
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	I
<b>Primary Antenna TFU-22GBH/VP-R 08SP</b>	<b>\$310,799.00</b>	<b>\$401,662.00</b>		<b>\$361,495.80</b>	
RTT675	<b>\$2,269.00</b>	\$2,269.00	Antenna Test transition. See attached Dielectric Antenna Quote 700203CMZ Line 4.	\$2,042.10	I
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.	\$342,150.30	I
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,760.00	I
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	\$11,543.40	I
<b>Sub-total</b>	<b>\$406,929.00</b>	<b>\$432,012.00</b>	N/A	<b>\$385,445.80</b>	I
<b>Total for all systems</b>	<b>\$5,503,366.81</b>	<b>\$4,353,521.76</b>	N/A	<b>\$1,451,138.50</b>	I

## Components

Actual Information Description	File Name
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>
Sweep test of existing antenna RTT675	<p>Information not provided.</p> <p><b>Component Description:</b> 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> \$1,021.05</p> <p><b>Component Description:</b> See WIPM second 45% deposit invoice MAN00466 Item 5, RTT675</p> <p><b>Amount:</b> \$1,021.05</p>
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<p><b>Component Description:</b> WIPM Main Antenna 45% deposit See Attached WIPM Main Antenna 45% deposit Explanation cover letter- Proposal and Invoice document</p> <p><b>Amount:</b> \$171,075.15</p>

	<b>Component Description:</b>	See Dielectric Invoice MAN00466 Line1 Product 400003596
	<b>Amount:</b>	\$171,075.15
Sweep test of existing antenna	<b>Component Description:</b>	See WIPM Main Antenna 2nd 45% deposit invoice MAN 00466 Item 6 Repack SWEEP.
	<b>Amount:</b>	\$2,880.00
	<b>Component Description:</b>	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
	<b>Amount:</b>	\$2,880.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b>	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
	<b>Amount:</b>	\$5,771.70
	<b>Component Description:</b>	Elbow Complex and T/L6-75,

**Amount:**

items 3 and 4  
on invoice  
MAN00466.  
See Attached  
WIPM Main  
Antenna 2nd  
45% deposit  
Explanation  
cover letter-  
Proposal and  
Invoice  
document  
\$5,771.70

## 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 Justification
<b>Interim Transmission Line</b>	<b>\$23,739.11</b>	<b>\$14,719.06</b>		<b>\$14,719.06</b>	
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
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
<b>Primary Transmission Line</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$0.00</b>	
<b>Sub-total</b>	\$23,739.11	\$14,719.06	N/A	\$14,719.06	N
<b>Total for all systems</b>	\$5,503,366.81	\$4,353,521.76	N/A	\$1,451,138.50	N

### Components

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

	Transmission Line Dehydrator Cost. \$1,909.11
<b>Amount:</b>	

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## 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 Justification
<b>Primary Tower TOWER</b>	<b>\$421,000.00</b>	<b>\$400,000.00</b>		<b>\$0.00</b>	
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>Auxiliary Tower TOWER</b>	<b>\$531,500.00</b>	<b>\$505,000.00</b>		<b>\$0.00</b>	
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



<b>Sub-total</b>	\$952,500.00	\$905,000.00	N/A	\$0.00	N/
<b>Total for all systems</b>	\$5,503,366.81	\$4,353,521.76	N/A	\$1,451,138.50	N/

## 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 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
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	\$4,100.00	\$3,000.00	N/A	N/A	N/A

request for Special Temporary Authorization					
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/.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/.
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/.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/.
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	N/A	N/.
Address transition timing and coordination	\$2,630.00	\$2,500.00	N/A	N/A	N/.

issues w/ other stations and wireless					
Project management of the transition	\$158,000.00	\$150,000.00	N/A	N/A	N/.
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/.
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/.
<b>Sub-total</b>	\$227,640.00	\$215,400.00	N/A	\$0.00	N/.
<b>Total for all systems</b>	\$5,503,366.81	\$4,353,521.76	N/A	\$1,451,138.50	N/.

## 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 Justification
<b>Other Expenses</b>	<b>\$306,458.70</b>	<b>\$297,915.70</b>		<b>\$43,798.64</b>	
System Design and Site Survey	<i>\$15,300.00</i>	\$15,300.00	***System Notice: Estimate adjusted and locked because line has been superseded. ***Transmitter system design and site survey as per attached Comark Television transmitter proposal	\$9,180.00	
Station Employees Time	<i>\$80,777.50</i>	\$80,777.50	See WIPM Employees Repack Hours Estimate attached Excel worksheet	N/A	
8 poles Adjacent Channel Filter.	<i>\$80,000.00</i>	\$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	
Motorized Switch	<i>\$25,375.00</i>	\$25,375.00	***System Notice: Estimate adjusted and locked because line has been superseded. Motorized switch for antenna or dummy load, See Attached Comark Proposal P#3183PRLXU32-091817-R2.	\$15,225.00	
MVPD Notification of Channel Change	<i>\$316.20</i>	\$316.20	See "WIPM DTVNotification MVPD Expense Explanation	\$316.20	

			Cover Letter, Proposal and Invoice" document.	
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
Equipment Storage	<b>\$7,000.00</b>	\$7,000.00	Based on previous experience during the analog to digital transition.	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.	\$16,015.44
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
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A
Local Zoning	<b>\$10,000.00</b>	\$10,000.00	Based on previous experience. Local authority	N/A

			estimated fees for tower work permits.	
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
<b>Sub-total</b>	\$306,458.70	\$297,915.70	N/A	\$43,798.64
<b>Total for all systems</b>	\$5,503,366.81	\$4,353,521.76	N/A	\$1,451,138.50

## Components

Actual Information Description	File Name
System Design and Site Survey	<p><b>Component Description:</b> WIPM Main transmitter 60% of the \$15,300.00 cost on proposal item 2.3 S34 System Design and Site Survey.</p> <p><b>Amount:</b> \$9,180.00</p> <p><b>Component Description:</b> WIPM Main Transmitter 60% payment request on proposal item 2.3 PN S34 System design and site survey.</p> <p><b>Amount:</b> \$9,180.00</p>
Station Employees Time	Information not provided.
8 poles Adjacent Channel Filter.	Information not provided.
Motorized Switch	<p><b>Component Description:</b> WIPM Main Transmitter 60% of the \$25,375.00 cost On proposal Item 2.1, PN T5 Motorized Switch.</p> <p><b>Amount:</b> \$15,225.00</p> <p><b>Component Description:</b></p>

		WiPM Main Transmitter 60% payment on proposal Item 2.1 PN T5 Motorized Switch.
	<b>Amount:</b>	\$15,225.00
MVPD Notification of Channel Change	<b>Component Description:</b>	WIPM MVPD Notifications. DTVNotification Invoice: INV-001808
	<b>Amount:</b>	\$316.20
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	<b>Component Description:</b>	WIPM Main Transmitter 60% payment request on Proposal Item 2.2 PN S16 Transmitter System Crating and Transportation to port of Puerto Rico.
	<b>Amount:</b>	\$8,160.00
	<b>Component Description:</b>	WIPM Interim transmitter (Inv. 206391) shipping charges.
	<b>Amount:</b>	\$3,799.00
	<b>Component Description:</b>	WIPM Main Transmitter 60% payment request on Proposal Item 2.2 PN S16 Transmitter System Crating and Transportation to port of Puerto Rico.
	<b>Amount:</b>	\$8,160.00



	<b>Component Description:</b>	WIPM Aux Antenna and Transmission Line Freight Charges. PSI Invoice 1896 FREIGHT.
	<b>Amount:</b>	\$4,056.44
DTV Medical Facility Notification	<b>Component Description:</b>	WIPM Medical Notifications. DTVNotification Invoice: INV- 001813
	<b>Amount:</b>	\$3,062.00
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.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	

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Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,503,366.81	\$4,353,521.76	\$1,451,138.50

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

Section	Question	Response
	<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> <li>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</li> </ol>	

**Submission of Estimated  
Expenses Statements**

(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.

**Alejandro  
Luciano ,  
PE .**

*Repack  
Project  
Manager*

05/29/2019

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Section	Question	Response
	<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> <li>4. The above-named entity acknowledges the submission of the information herein creates no obligation on the</li> </ol>	

**Submission of Actual  
Cost Documentation  
Statements**

part of the  
government to pay  
any amount.

5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

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

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Alejandro Luciano ,  
PE .**

*Repack  
Project  
Manager*

05/29/2019

**Attachments**