

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 2174 Service: DTV Call WMTJ Channel: 15 (UHF)

ID:

Sign:

File **0000028744** 

Number:

FRN: **0001731298** Date **04/30** 

Submitted: /2019

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
SISTEMA UNIVERSITARIO ANA G. MENDEZ, INC. Doing Business As: SISTEMA UNIVERSITARIO ANA G. MENDEZ, INC.	P. O. BOX 21345 SAN JUAN, PR 00928 United States	+1 (787) 766- 2600	ca_adiaz@suagm. edu	Private Not- for-Profit Educational Institution

# Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### Preparer Contact Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email
Ariel Diaz Engineering VP SISTEMA UNIVERSITARIO ANA G. MENDEZ, INC.	ARIEL DIAZ Sistema-TV PO Box 21345 San Juan, PR 00928 United States	+1 (787) 766-2600	ca_adiaz@suagm. edu

#### Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	File CP, Perform Tower inspection and orders for equipment. File STA, Field Survey and Design. Install interim antenna. Remove present antenna. New equipment installation. Send notifications. File License. Narrative Attached.

#### **Transmitters**

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

# Auxiliary Transmitter

# Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup 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?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	DT835A
	Year	2000
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	3 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?	Yes
	Manufacturer	
	Model	MPTV-PRLX-U3
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	5 kW
	Justification for New Transmitter	The original manufacturer ADC Telecommunication is no longer on the market. The successor manufacturer does not support this product

## Auxiliary Transmitter

#### **Other Transmitter Costs**

Section	Question	Response
Electrical Service	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	40.0 feet
	Other Electrical Service	Yes

	Description	Electrical Panel Distribution modifications, circuit breakers, rewiring. Surge Protector, Voltage Regulator and UPS are required for the new transmitter installation
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	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
Upgraded Mask Filter from 6 to 8 poles	Charge to replace an included RF Mask Filter on the transmitter proposal with 8 pole filter
Equipment Crating	Equipment Crating for Ocean Shipping

Maritime Transportation	Due to the particular conditions of the island, special maritime transportation is required to a port
Motorized Switch	Extra cost for replace an included (3) port Manual Patch Panel on the transmitter proposal as the existing transmission system

## **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	CTT-U DCX-1 Millenium
	Year	2004
	Туре	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	20 kW

#### **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	MPTV- PRLX-U6
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	9.7 kW
	Justification for New Transmitter	Hitachi Kokusai Electric Comark LLC (HKCM) informed us that they will not be able to re- channel our DCX transmitter. The request for a solid state transmitter is because the cost of a new IOT DCX paragon transm. is considerably higher than a Solid State

#### **Other Transmitter Costs**

Section	Question	Response
Electrical Service	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	200.0 feet
	Other Electrical Service	Yes
	Description	Distribution panel modification and rewiring for new transmitters Surge Protector, Voltage Regulator and UPS are required for the new transmitter installation
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes

	Size	164.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

#### **Other Transmitter Cost Not Listed**

Name	Description
Maritime Transportation	Due to the particular conditions of the island, special maritime transportation is required to a port
Equipment Crating	Equipment Crating for Ocean Shipping
Transmitter Motorized Switch replacement	Extra cost for replace an included (3) port Manual Patch Panel on the transmitter proposal as the existing transmission system
Upgraded RF Mask Filter to 8 pole	Charge to replace an included RF Mask Filter on the transmitter proposal with 8 pole filter
System Design and Site Survey	System Design based on Site Survey to prepare an as built and present modifications to accommodate the new transmitters, Filters, RF components.  Prepare electrical distribution based on the existing and new components associated with the transition

#### **Antennas**

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

#### **Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	178.0 kW

Manufacturer	
Model	TFU- 16DSC-R S300
Year	2008

#### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	174.0 kW
	Manufacturer	

Model	TFU- 16DSC-R S300
Year	2017
Justification for New Antenna	Narrowband Slotted coaxial antenna not suited for rechanneling

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	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	4 1/16 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?	No

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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#### **Other Antenna Cost Not Listed**

Name	Description
Maritime Transportation	Due to the particular conditions of an island, special maritime transportation is required from port to port

#### Interim Antenna

#### **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	178.0 kW
	Manufacturer	
	Model	TFU- 16DSC-R S300

Year	2017
Justification for New Antenna	Interim
	Antenna to
	operate
	while the
	existing
	antenna is
	removed
	and the
	final
	antenna for
	the new
	channel is
	installed on
	the tower.

#### Interim Antenna

#### **Other Antenna Costs**

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

#### Interim Antenna

#### **Other Antenna Cost Not Listed**

Name	Description
Maritime Transportation	Due to the particular conditions of an island, special maritime transportation is required from port to port

Transmission <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission Line

#### **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	240 feet per run

#### **New Transmission Line**

#### Primary 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
	Туре	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	280 feet per
	Justification for New Transmission Line	Existing Transmissic line can't be re-used because it have a prohibited length for th

# Other Transmission Line Expenses Not Listed

#### Primary Transmission

on Line	Description
Test for Reducer	Test transition of 4 inch at 50 ohms
Reducer 6 to 4 inch	Reducer for antenna input 6 to 4 inch reducer at 50 ohms

re-packed channel

#### **New Transmission Line**

Interim
<b>Transmiss</b>

Section Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	240 feet pe
	Justification for New Transmission Line	Interim transmissio Line for the Interim antenna, to operate while the existing antenna an transmissio line are removed and the fina antenna with its transmissio line for the new channel are installed on the tower

Interim Other Transmission Line Expenses Not Listed Transmission Line tion not provided.

# Tower Equipment And Rigging Costs

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

#### Primary Tower

# **Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure	Do you have a tower registration number?	No
Registration	ASR Number	
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	18° 18' 27.8" N-
	Longitude (NAD83)	065° 47' 41.5" W-
	Overall Structure Height	198.00 feet
	Support Structure Height	198.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	3297.00 fee

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Sistema Universitario Ana G Mendez Inc.
Date Constructed	10/01/2008

#### Primary Tower

#### **Tower Modification Costs**

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

#### Primary Tower

#### **Tower Rigging Costs**

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

#### Primary Tower

#### Other Tower Expenses Not Listed

Information not provided.

#### Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	618
	Explanation	External resource are required for management this project. The technical and administrative personnel are occupied in daily operations of the station. The Budgeting's constrains of the NCE (PBS) TV station prevent reassign functions or increase personnel
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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	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	Yes
	Additional Field Engineering Service	No

Number of Days	N/A
Justification	N/A

Outside
Professional Services Expenses Not Listed
Professional Services ©pstsided.

# 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	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	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
Local Sales and Use Taxes	Sales taxes based on 11.5 percent and service taxes based on 4 percent This amount corresponds to a sales and use tax to be paid by any who imports tangible personal property into Puerto Rico or provides services in relation to any property from abroad

# **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 MPTV-PRLX- U6	\$601,939.04	\$457,239.04		\$380,970.00	
System Design and Site Survey	\$15,300.00	\$15,300.00	System Design based on Site Survey to prepare an as built and present modifications to accommodate the new transmitters, Filters, RF components. Prepare electrical distribution based on the existing and new components associated with the transition. Mechanical, Electrical and RF Design for the new transmitter	\$13,770.00	N/A

Transmitter Motorized	\$4,835.00	\$4,835.00	Extra cost for replace an	\$4,351.00	N/A
Switch			included (3)		
replacement			port Manual		
			Patch Panel		
			on the		
			transmitter		
			proposal with		
			a motorized		
			Switch as the		
			existing		
			transmission		
			system		
Other	\$21,284.04	\$21,284.04	The heat	N/A	N/A
Building			exchangers		
Addition Size:			for the		
164.0			transmitter are		
			longer than		
			the existing		
			ones. To		
			accommodate		
			them in the		
			room it will be		
			necessary to		
			relocate the		
			intake and		
			exhaust		
			ventilation		
			walls and		
			replace the		
			steel louvers		
			with the metal		
			ducts around		
			the units. The		
			load walls to		
			be modified		
			are concrete		
			and have a		
			thickness of 8		
			"deep.		

		transmitter's request, the cost of a new IOT transmitter is higher than a SS (attached P3245-R1 WMTJ Main Tx ). (DA 16-1164 MB		eliminating an invoice that indicate - need more information - and including invoice with quotation
\$5,200.00	\$5,000.00	306 GN Docket No. 12- 268). One power-level step up in transmitter  N/A	N/A	N/A
\$36,300.00	\$36,300.00	Surge Suppressor \$5,250.00, Voltage Regulator \$23,395.00 (options included on the Comark Transmitter WMTJ Parallax U6 10kW revised options), and UPS \$46,912.00 (Quote from CLARY Corp)	\$25,781.00	N/A
			cost of a new IOT transmitter is higher than a SS (attached P3245-R1 WMTJ Main Tx ). (DA 16-1164 MB Docket No. 16-306 GN Docket No. 12-268). One power-level step up in transmitter  \$5,200.00 \$5,000.00 N/A  \$36,300.00 Surge Suppressor \$5,250.00, Voltage Regulator \$23,395.00 (options included on the Comark Transmitter WMTJ Parallax U6 10kW revised options), and UPS \$46,912.00 (Quote from	Cost of a new   IOT

Maritime Transportation	\$5,020.00	\$5,020.00	Due to the particular conditions of an island, special maritime transportation is required from port to port	\$4,518.00	N/A
Equipment Crating	\$4,500.00	\$4,500.00	Equipment Crating required for Maritime Transportation Quotation attached WMTJ Parallax U6 10kW revised options, Part No. NS1	\$4,050.00	N/A
Upgraded RF Mask Filter to 8 pole	\$15,000.00	\$15,000.00	Charge to replace an included RF Mask Filter of 6 pole on the transmitter proposal with 8 pole	\$13,500.00	N/A
Auxiliary Transmitter MPTV-PRLX- U3	\$323,895.00	\$275,355.00		\$246,859.50	
Motorized Switch	\$4,835.00	\$4,835.00	Extra cost for replace an included (3) port Manual Patch Panel on the transmitter proposal with a motorized Switch as the existing transmission	\$4,351.50	N/A

Maritime	\$5,020.00	\$5,020.00	Due to the	\$4,518.00	N/A
Transportation			particular		
			conditions of		
			an island,		
			special		
			maritime		
			transportation		
			is required		
			from port to		
			port		
Equipment	\$4,500.00	\$4,500.00	Equipment	\$4,050.00	N/A
Crating			Crating		
· ·			required for		
			Maritime		
			Transportation		
			Quotation		
			attached		
			P2986A-R1		
			AUX WMTJ		
			Parallax U3		
			5kW Proposal		
			Part No. NS1		
Upgraded	\$15,000.00	\$15,000.00	Charge to	\$13,500.00	N/A
Mask Filter			replace an		
from 6 to 8			included RF		
poles			Mask Filter of		
			6 pole on the		
			transmitter		
			proposal with		
			8 pole filter		

Other	\$20,000.00	\$20,000.00	To increase	\$17,940.00	N/A
Electrical			the capacity		
Service:			of the surge		
Electrical			suppressor,		
Panel			voltage		
Distribution			regulator and UPS for the		
modifications,					
circuit			main transmitter		
breakers,			and add the		
rewiring.			load The		
Surge Protector,			transmitter		
Voltage			facilities are		
•			located on a		
Regulator and UPS are			Rain Forest		
required for			where the		
the new			power		
transmitter			fluctuations		
installation			are severe		
ii istaiiatiUH			are severe and		
			contiguous		
			contiguous		
UHF - Liquid	\$273,500.00	\$225,000.00	Upgrade	\$202,500.00	N/A
Cooled Solid			request from		
State			air cooled to		
Transmitter			liquid cooled		
4.9 . 6.5 kW			transmitter		
			because the		
			air cooled		
			require an		
			additional		
			stepdown		
			transformer		
			(480 to 208 V)		
			and additional		
			wiring for the		
			input.		
			attached		
			quote for both		
			P2986A-R1		
			AUX Tx		
			WMTJ P3231-		
			R1 WMTJ,		
			P3231-R1		
			WMTJ		
2" Rigid	\$1,040.00	\$1,000.00	N/A	N/A	N/A

Sub-total	\$925,834.04	\$732,594.04	N/A	\$627,829.50	N/A
Total for all systems	\$2,069,067.66	\$1,762,568.96	N/A	\$823,167.30	N/A

#### Components

Components		
Actual Information Description	File Name	
System Design and Site Survey	Component Description:  Amount:	40% OF SYSTEM DESIGN AND SITE SURVEY Amended proposal dated 3/8 /18 \$6,120.00
	Component Description: Amount:	50% OF SYSTEM DESIGN \$7,650.00
Transmitter Motorized Switch replacement	Component Description:  Amount:	40% OF TRANSMITTER MOTORIZED SWITCH Amended proposal dated 3/8 /18 \$1,934.00
	Component Description:  Amount:	50% OF TRANSMITTER MOTORIZED SWITCH \$2,417.00
Other Building Addition Size: 164.0	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter		400/ OF DADALL 13/
8.2 - 13 kW	Component Description:	40% OF PARALLAX
		10KW UHF LIQUID
		COOLED DIGITAL
		TRANSMITTER
		Amended proposal
		dated 3/8/18
	Amount:	\$140,000.00
	Component Description:	50% OF PARALLAX
		10KW UHF LIQUID
		COOLED DIGITAL
		TRANSMITTER
	Amount:	\$175,000.00
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Other Electrical Service:		
Distribution panel	<b>Component Description:</b>	50% OF SURGE
modification and rewiring		SUPPRESSOR
for new transmitters		(\$2,625) AND
Surge Protector, Voltage		VOLTAGE
Regulator and UPS are		REGULATOR
required for the new		(\$11,698)
transmitter installation	Amount:	\$14,323.00
	Component Description:	40% OF SURGE
		SUPPRESSOR
		(\$2,100) AND
		VOLTAGE
		REGULATOR
		(\$9,358) Amended
		proposal dated 3/8
		/18
	Amount:	\$11,458.00

Maritime Transportation		
	Component Description:	50% OF MARITIME TRANSPORTATION
	Amount:	\$2,510.00
	Component Description:	40% OF MARITIME TRANSPORTATION Amended proposal dated 3/8/18
	Amount:	\$2,008.00
Equipment Crating		
	Component Description:	50% OF EQUIPMENT CRATING REQUIRED FOR MARITIME TRANSPORTATION
	Amount:	\$2,250.00
	Component Description:	Amended proposal dated 3/8/18 40% OF EQUIPMENT CRATING REQUIRED FOR MARITIME TRANSPORTATION
	Amount:	\$1,800.00
Upgraded RF Mask Filter to 8 pole	Component Description:	40% OF UPGRADED
		RF MASK FILTER Amended proposal dated 3/8/18
	Amount:	\$6,000.00
	Component Description:	50% OF UPGRADED RF MASK FILTER
	Amount:	\$7,500.00

Motorized Switch	Component Description:	40% of motorized
	Component Description:	switch
	Amount:	\$1,934.00
	Component Description:	50% of motorized
	parameter parame	switch
	Amount:	\$2,417.50
Maritime Transportation		
	Component Description:	50% of maritime
	Amount:	transportation \$2,510.00
	AIIIVAIIL	ψ2,010.00
	Component Description:	40% of maritime
	Amount:	transportation \$2,008.00
		<b>,</b> , , , , , , , , , , , , , , , , , ,
Equipment Crating		
	Component Description:	40% of equipment crating for maritime
		transportation
	Amount:	\$1,800.00
	Component Description:	50% of equipment
		crating for maritime
	Amount:	transportation \$2,250.00
	Alliount.	ΨΔ,230.00
Upgraded Mask Filter from 6 to 8 poles		
nom o to o poi <del>c</del> a	Component Description:	50% of upgraded
	Amount:	mask filter \$7,500.00
		. ,
	Component Description:	40% of upgraded
		mask filter
	Amount:	\$6,000.00

Other Electrical Service: Electrical Panel Distribution modifications, circuit breakers, rewiring. Surge	Component Description:	Installation of heat exchangers and 2 pump systems for the
Protector, Voltage Regulator and UPS are required for the new transmitter installation	Amount:	transmitter \$17,940.00
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	Component Description:	40% OF PARALLAX 5KM UHF LIQUID COOLED DIGITAL
	Amount:	TRANSMITTER \$90,000.00
	Component Description:	50% OF PARALLAX 5KM UHF LIQUID COOLED DIGITAL TRANSMITTER
	Amount:	\$112,500.00
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

#### **Antennas**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU- 16DSC-R S300	\$133,780.00	\$42,900.00		\$0.00	
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$0.00	NO CHANGE	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	\$0.00	N/A
Maritime Transportation	\$14,500.00	\$14,500.00	Due to the particular conditions of an island, special maritime transportation is required from port to port. Quote includes the transmission line volume and weight	N/A	N/A

Primary Antenna TFU- 16DSC-R S300	\$232,750.00	\$174,415.30		\$145,916.10	
Maritime Transportation	\$14,500.00	\$14,500.00	Due to the particular conditions of an island, special maritime transportation is required from port to port. Quote includes the transmission line volume and weight	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	\$15,768.00	N/A
Elbow complex, single channel, at antenna input, per 4 1 /16. feedline (if needed)	\$9,570.00	\$9,100.00	N/A	\$7,732.80	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$61,207.65	NO CHANGE	\$61,207.65	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

UHF - Lower	\$89,400.00	\$61,207.65	***System	\$61,207.65	N/A
Power Side			Notice:		
Mount, One			Estimate		
station			adjusted and		
antenna -			locked		
medium			because line		
power (50-			has been		
200 kW),			superseded.		
horizontally			***the original		
polarized			estimated		
			cost for lower		
			power side		
			mount		
			antenna is		
			\$139440		
Sub-total	\$366,530.00	\$217,315.30	N/A	\$145,916.10	N/A
Total for all systems	\$2,069,067.66	\$1,762,568.96	N/A	\$823,167.30	N/A

Actual Information Description	File Name	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description:  Amount:	45% with order prior to shipment for side mount brackets
Maritime Transportation	Information not provided.	
Maritime Transportation	Information not provided.	

Side mount brackets for high power antennas (if not **Component Description:** 45% for Side included in antenna base mount brackets cost) \$7,884.00 Amount: **Component Description:** 45% of invoice for Side mount brackets Amount: N/A **Component Description:** 45% for Side mount brackets **Amount:** \$7,884.00 Elbow complex, single channel, at antenna input, **Component Description:** 45% for elbow per 4 1/16. feedline (if complex needed) Amount: \$3,866.40 **Component Description:** 45% for elbow complex **Amount:** \$3,866.40 **Component Description:** 45% with invoice prior to shipment for elbows complex **Amount:** N/A UHF - Lower Power Side Mount, One station antenna **Component Description:** 45% of UHF -- medium power (50-200 Lower Power kW), horizontally polarized Side Mount, One station antenna medium power (50-200 kW), horizontally polarized \$61,207.65 Amount:

Sweep test of existing antenna	Information not provided.	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Component Description:	45% for UHF- Lower power side mount antenna one-station horizontally
	Amount:	polarized \$61,207.65

#### **Transmission Line**

	Predetermined	Estimated	Estimated Cost	A. ( . 1 Q (	Actual Cost
Interim Transmission Line	\$17,760.00	\$16,800.00	Justification	\$0.00	Justification
Flexible Air Transmission Line - dielectric, 4"	\$17,760.00	\$16,800.00	N/A	N/A	N/A
Primary Transmission Line	\$43,466.00	\$48,796.00		\$43,661.70	
Rigid Transmission Line - copper, 4 1 /16"	\$39,760.00	\$45,090.00	This cost estimated by the factory includes 3 elbows and a dehydrator.	\$43,661.70	N/A
Test for Reducer	\$2,034.00	\$2,034.00	Estimated cost by factory for test the transition from 4 inch 50 ohms to 6 inch 50 ohms	N/A	N/A
Reducer 6 to 4 inch	\$1,672.00	\$1,672.00	Cost for a separate reducer transition from 6 inch to 4 inch at 50 ohms	\$0.00	N/A
Sub-total	\$61,226.00	\$65,596.00	N/A	\$43,661.70	N/A

Total for all	\$2,069,067.66	\$1,762,568.96	N/A	\$823,167.30	N/A
systems					

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 4"	Information not provided.	
Rigid Transmission Line - copper, 4 1/16"	Component Description:  Amount:	45% of invoice to shipment for rigid transmission line-copper N/A
	Component Description: Amount:	45% for rigid transmission line copper \$21,830.85
	Component Description: Amount:	45% for rigid transmission line copper \$21,830.85
Test for Reducer	Information not provided.	
Reducer 6 to 4 inch	Information not provided.	

#### **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	\$254,800.00	\$242,000.00		\$5,760.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$5,760.00	N/A
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	N/A	N/A
Sub-total	\$254,800.00	\$242,000.00	N/A	\$5,760.00	N/A
Total for all systems	\$2,069,067.66	\$1,762,568.96	N/A	\$823,167.30	N/A

#### Components

<b>Actual Information</b>	
Description	File Name

Structural engineering tower		
oad study for well documented tower	Component Description:	45% for one field
documented tower		engineer on-site
		for one day,
		travel, expenses
		and report
	Amount:	\$2,880.00
	Component Description:	45% for one field
	,	engineer on-site
		for one day,
		travel, expenses
		and report
	Amount:	\$2,880.00
	Component Description:	45% with order
		prior to shipment
		for engineer on-
	Amazinti	site
	Amount:	N/A
Short Tower (less than 500')	Information not provided.	
Minor tower reinforcement /modifications	Information not provided.	

#### **Outside Professional Services**

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Outside Professional Services	\$237,814.00	\$282,750.00		\$0.00	
RF Exposure Measurements	\$21,050.00	\$20,000.00	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
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	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 - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare 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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	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
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$97,644.00	\$150,000.00	Proposal from RGB Corporation HMDRQ2923 and Detail estimate attached	N/A	N/A

Sub-total	\$237,814.00	\$282,750.00	N/A	\$0.00	N/A
Total for all systems	\$2,069,067.66	\$1,762,568.96	N/A	\$823,167.30	N/A

Information not provided.

#### **Other Expenses**

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$222,863.62	\$222,313.62		\$0.00	
Local Sales and Use Taxes	\$148,313.62	\$148,313.62	PR Sales and Use Tax 11.5% for all the imported equipment or 4% for all the services from abroad. Attached Excel Worksheet with detailed calculations, Translated copy of the state law 25-2017, Copy of the DA 15-17 and translated Indirect Tax Alert	N/A	N/A
MVPD Notification of Channel Change	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$20,000.00	\$20,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	Estimated proposal for Delivery from Maritime Port of San Juan to the Transmitter Site Attached Transportes Rolon proposal	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
Equipment Storage	\$7,000.00	\$7,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$9,000.00	\$9,000.00	N/A	N/A	N/A
Sub-total	\$222,863.62	\$222,313.62	N/A	\$0.00	N/A
Total for all systems	\$2,069,067.66	\$1,762,568.96	N/A	\$823,167.30	N/A

Information not provided.

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,069,067.66	\$1,762,568.96	\$823,167.30

Reimbursem	entestiatus	Response
auction channel.  Construction of fire	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

### 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 abovenamed applicant for the Authorization(s) specified above. ARIEL
DIAZ
ENGINEER

04/30/2019

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

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

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

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. GINIA
HERNANDEZ
DIRECTOR

04/30/2019

#### **Attachments**