Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **2174** | Service: **DTV** | Call Sign: **WMTJ** | Channel: **15 (UHF)**

File Number: **0000028744**

FRN: **0001731298** | Date Submitted: **08/07/2018**

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 Information

Reimbursement Contact Name and 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

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 and Type	Manufacturer	
	Model	DT835A
	Year	2000
	Type	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
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Upgraded Mask Filter from 6 to 8 poles	Charge to replace an included RF Mask Filter on the transmitter proposal with 8 pole filter

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
Motorized Switch	Extra cost for replace an included (3) port Manual Patch Panel on the transmitter proposal as the existing transmission system

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

Primary 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	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
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A

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

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Maritime Transportation	Due to the particular conditions of the island, special maritime transportation is required to a port
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
Equipment Crating	Equipment Crating for Ocean Shipping

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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	178.0 kW

Manufacturer	
Model	TFU-16DSC-RS300
Year	2008

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Types	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)	174.0 kW
	Manufacturer	

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

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	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

Primary 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

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 Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	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 Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	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

Primary Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	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 run
	Justification for New Transmission Line	Existing Transmission line can't be re-used because it have a prohibited length for the re-packed channel

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	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

Interim Transmission Line

New Transmission Line

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

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information 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 Registration	Do you have a tower registration number?	No
	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 feet

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 Services Costs

Section	Question	Response
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 Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	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 Costs

Other Professional Services Expenses Not Listed

Information not provided.

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	**$580,655.00**	**$435,955.00**		**$380,970.00**	
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

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
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
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

Other Electrical Service: Distribution panel modification and rewiring for new transmitters Surge Protector, Voltage Regulator and UPS are required for the new transmitter installation	***$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) are required for new transmitter installation	$25,781.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	$5,200.00	$5,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	$494,500.00	$350,000.00	Solid state 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 Docket No. 16-306 GN Docket No. 12-268). One power-level step up in transmitter	$315,000.00	N/A

Transmitter Motorized Switch replacement	***$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 system	$4,351.00	N/A
Auxiliary Transmitter MPTV-PRLX-U3	**$323,895.00**	**$275,355.00**		**$228,919.50**	
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 system	$4,351.50	N/A

UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	$273,500.00	$225,000.00	Upgrade request from air cooled to liquid cooled 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	$202,500.00	N/A
2" Rigid Conduit and Wiring (Cost per foot)	$1,040.00	$1,000.00	N/A	N/A	N/A
Other Electrical Service: Electrical Panel Distribution modifications, circuit breakers, rewiring. Surge Protector, Voltage Regulator and UPS are required for the new transmitter installation	***$20,000.00***	$20,000.00	To increase the capacity of the surge suppressor, voltage regulator and UPS for the main transmitter and add the load The transmitter facilities are located on a Rain Forest where the power fluctuations are severe and contiguous	N/A	N/A

Upgraded Mask Filter from 6 to 8 poles	***$15,000.00***	$15,000.00	Charge to replace an included RF Mask Filter of 6 pole on the transmitter proposal with 8 pole filter	$13,500.00	N/A
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 P2986A-R1 AUX WMTJ Parallax U3 5kW Proposal Part No. NS1	$4,050.00	N/A
Sub-total	$904,550.00	$711,310.00	N/A	$609,889.50	N/A
Total for all systems	$2,047,783.62	$1,741,284.92	N/A	$805,227.30	N/A

Components

Actual Information Description	File Name

Equipment Crating	**Component Description:**	50% OF EQUIPMENT CRATING REQUIRED FOR MARITIME TRANSPORTATION
	Amount:	$2,250.00
	Component Description:	40% OF EQUIPMENT CRATING REQUIRED FOR MARITIME TRANSPORTATION
	Amount:	$1,800.00
System Design and Site Survey	**Component Description:**	50% OF SYSTEM DESIGN
	Amount:	$7,650.00
	Component Description:	40% OF SYSTEM DESIGN AND SITE SURVEY
	Amount:	$6,120.00
Upgraded RF Mask Filter to 8 pole	**Component Description:**	50% OF UPGRADED RF MASK FILTER
	Amount:	$7,500.00
	Component Description:	40% OF UPGRADED RF MASK FILTER
	Amount:	$6,000.00

Maritime Transportation	**Component Description:** **Amount:**	50% OF MARITIME TRANSPORTATION $2,510.00
	Component Description: **Amount:**	40% OF MARITIME TRANSPORTATION $2,008.00
Other Electrical Service: Distribution panel modification and rewiring for new transmitters Surge Protector,Voltage Regulator and UPS are required for the new transmitter installation	**Component Description:** **Amount:**	50% OF SURGE SUPPRESSOR ($2,625) AND VOLTAGE REGULATOR ($11,698) $14,323.00
	Component Description: **Amount:**	40% OF SURGE SUPPRESSOR ($2,100) AND VOLTAGE REGULATOR ($9,358) $11,458.00
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	**Component Description:** **Amount:**	40% OF PARALLAX 10KW UHF LIQUID COOLED DIGITAL TRANSMITTER $140,000.00
	Component Description: **Amount:**	50% OF PARALLAX 10KW UHF LIQUID COOLED DIGITAL TRANSMITTER $175,000.00

Transmitter Motorized Switch replacement	**Component Description:** **Amount:** **Component Description:** **Amount:**	50% OF TRANSMITTER MOTORIZED SWITCH $2,417.00 40% OF TRANSMITTER MOTORIZED SWITCH $1,934.00
Motorized Switch	**Component Description:** **Amount:** **Component Description:** **Amount:**	50% of motorized switch $2,417.50 40% of motorized switch $1,934.00
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	**Component Description:** **Amount:** **Component Description:** **Amount:**	40% OF PARALLAX 5KM UHF LIQUID COOLED DIGITAL TRANSMITTER $90,000.00 50% OF PARALLAX 5KM UHF LIQUID COOLED DIGITAL TRANSMITTER $112,500.00
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Other Electrical Service: Electrical Panel Distribution modifications, circuit breakers, rewiring. Surge Protector, Voltage Regulator and UPS are required for the new transmitter installation	Information not provided.	
Upgraded Mask Filter from 6 to 8 poles	**Component Description:** **Amount:**	50% of upgraded mask filter $7,500.00
	Component Description: **Amount:**	40% of upgraded mask filter $6,000.00
Maritime Transportation	**Component Description:** **Amount:**	40% of maritime transportation $2,008.00
	Component Description: **Amount:**	50% of maritime transportation $2,510.00
Equipment Crating	**Component Description:** **Amount:**	50% of equipment crating for maritime transportation $2,250.00
	Component Description: **Amount:**	40% of equipment crating for maritime transportation $1,800.00

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-16DSC-R S300	**$133,780.00**	**$42,900.00**		**$0.00**	
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
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
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
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	$61,207.65	NO CHANGE	$61,207.65	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
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

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	$89,400.00	$61,207.65	***System Notice: Estimate adjusted and locked because line has been superseded. ***the original estimated cost for lower power side mount antenna is $139440	$61,207.65	N/A
Sub-total	$366,530.00	$217,315.30	N/A	$145,916.10	N/A
Total for all systems	$2,047,783.62	$1,741,284.92	N/A	$805,227.30	N/A

Components

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

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	**Component Description:** **Amount:**	45% for UHF-Lower power side mount antenna one-station horizontally polarized $61,207.65

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	**$17,760.00**	**$16,800.00**		**$0.00**	
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**	
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
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
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
Sub-total	$61,226.00	$65,596.00	N/A	$43,661.70	N/A

Total for all systems	$2,047,783.62	$1,741,284.92	N/A	$805,227.30	N/A

Components

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

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	**$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	$2,047,783.62	$1,741,284.92	N/A	$805,227.30	N/A

Components

Actual Information Description	File Name

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

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$237,814.00**	**$282,750.00**		**$0.00**	
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

RF Exposure Measurements	$21,050.00	$20,000.00	N/A	N/A	N/A
Sub-total	$237,814.00	$282,750.00	N/A	$0.00	N/A
Total for all systems	$2,047,783.62	$1,741,284.92	N/A	$805,227.30	N/A

Components

Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$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 Storage	***$7,000.00***	$7,000.00	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
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	$2,047,783.62	$1,741,284.92	N/A	$805,227.30	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$2,047,783.62	$1,741,284.92	$805,227.30

Reimbursement Status

Question	Response
The facility has ceased operating on its pre-auction channel.	No
Construction of final facilities or all necessary modifications are complete.	No
All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification

Section	Question	Response
Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**GINIA E HERNANDEZ** *Sponsored Program Director* 08/07/2018

Attachments