

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 66358 Service: DTV Call **WLRN-TV** Channel: 26 (UHF) Sign:

ID:

File 0000027823

Number:

FRN: 0004998118 Date 11/30

> Submitted: /2021

#### **Applicant** Information

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

Applicant	Address	Phone	Email	Applicant Type
THE SCHOOL BOARD OF MIAMI - DADE COUNTY, FL	John LaBonia 172 NE 15TH ST MIAMI, FL 33132 United States	+1 (305) 995-2259	jlabonia@wlrn. org	Government Entity

# 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
Ryan C Wilhour  Consulting Engineer  Kessler and Gehman  Associates, Inc.	Ryan C Wilhour 507 NW 60th Street Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@kesslerandgehman. com

## Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Replace main transmitter using existing antenna and line. Replace auxiliary antenna and transmission line. Map and analyze tower; design and implement modifications if required. See attachment.

# **Transmitters**

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

# Primary Transmitter

# **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	
Manufacturer and Type	Model	Sigma
	Year	2008
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	42 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?	No
	Manufacturer	
	Model	THU9evo-24
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	37 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be retuned to the assigned channel. A new Comark Paragon MSDC IOT transmitter is the basis for a replacement as suggested by the FCC. See attachment.

# Primary Transmitter

## **Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	N/A
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

# Primary Transmitter

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

Name	Description
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line

Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch
Consolidation service	Consolidation service
Additional Site Requirements	Additional Site Requirements

## Interim Transmitter

## **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	THU9evo-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19 kW
	Justification for New Transmitter	See attached Cover Letter with Rohde Schwarz invoice 9500092488 and associated Quote 123089.2 which are all with the uploaded PDF titled "R&S 9500092488 v190725jgv1. pdf"

# Interim 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	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

# **Other Transmitter Cost Not Listed**

Interim Transmitter

**Transmitter** 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	Retune Existing
	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?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	48
	Design power capacity in use	100.0 %
	Lower Limit	470.00 MH

Upper Limit	692.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	870.0 kW
Manufacturer	Dielectric
Model	TUF- BP4SP-12 /48USP-1-T
Year	2008

#### Primary Antenna

# **Adjustment to Existing Antenna**

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

# Primary Antenna

#### **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	,

## Primary Antenna

**Other Antenna Cost Not Listed** 

Information not provided.

# **Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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?	No
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)	198.0 kW

Manufacturer	
Model	TLP-16 I (C)
Year	2009

## **New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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?	No
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)	198.0 kW
	Manufacturer	
		1

Model	TFU- 12JSC-R BP230
Year	2018
Justification for New Antenna	Existing auxiliary antenna cannot be used on the new channel.

## **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	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?	Yes

Sweep Test	Do you require the sweep testing of	Yes
	transmission line and antenna?	

**Other Antenna Cost Not Listed** 

Information not provided.

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

# Primary Transmission

# **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
	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1120 feet per run

#### **Primary**

# Other Transmission Line Expenses Not Listed

Transmission	Naine	Description
	Sweep Tests	Sweep tests to verify line on new channel

# Auxiliary Transmission Se

# **Existing Transmission Line**

n Line Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	
	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1000 feet per run

## **New Transmission Line**

# Auxiliary Transmission

n Line Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	900 feet per run
	Justification for New Transmission Line	The segment lengths are unknown. The station will only purchase new line if the lengths are not compatible with the new channel.

# Auxiliary Other Transmission Line Expenses Not Listed

Transmission	n <mark>Laine</mark>	Description
	Other Transmission Line Parts	Other Transmission Line Parts

# 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?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1041402
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	25° 58' 47.0" N-
	Longitude (NAD83)	080° 11' 45.0" W-
	Overall Structure Height	1010.49 fee
	Support Structure Height	971.12 feet
	Ground Elevation Above Mean Sea Level (AMSL)	9.84 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	The School Board of Miami- Dade County, Florida
Date Constructed	10/17/2002

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
66339	WLRN-FM	FM

## **Other Types of Users**

Users	
Various microwv	

#### Primary Tower

## **Tower Modification Costs**

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

# Primary Tower

# **Tower Rigging Costs**

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

# 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	168
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
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	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
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes

Number of Days	18
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

#### Outside Professional

# Other Professional Services Expenses Not Listed

al	Services Costs	Description
	Other Engineering Services	Other Engineering Services

# 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
Additional parts	Additional parts
Consolidation service	Consolidation service
Electrical Services	Electrical Services
WLRN Site specific	WLRN Site specific

# **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 Cos Justificatio
Interim Transmitter THU9evo-12	\$831,500.00	\$494,571.00		\$494,571.00	
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$488,960.00	N/A	\$488,960.00	N/A
UHF inside RF system including switching	\$147,500.00	\$5,611.00	See attached / uploaded PDF file titled "R&S 9500134901 v210611jgv4. pdf"	\$5,611.00	N/A
Primary Transmitter THU9evo-24	\$1,783,786.00	\$1,346,891.00		\$1,250,591.00	
Additional Interior RF System	\$145,298.00	\$145,298.00	See attached / uploaded PDF files titled "R&S 9500119626 v201005jgv2. pdf" and "R&S 9500134901 v210611jgv4. pdf"	\$145,298.00	N/A
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	N/A	N/A

Additional Site Requirements	\$47,835.00	\$47,835.00	See attached / uploaded PDF file titled "R&S 9500130379 v210115jgv1"	\$47,835.00	N/A
Consolidation service	\$12,453.00	\$12,453.00	See attached / uploaded PDF file titled "R&S 9500119627 v201013jgv2. pdf"	\$12,453.00	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$115,000.00	See attached / uploaded PDF file titled "R&S 9500119626 v201005jgv2. pdf"	\$115,000.00	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$930,005.00	N/A	\$930,005.00	N/A
Sub-total	\$2,615,286.00	\$1,841,462.00	N/A	\$1,745,162.00	N/A
Total for all systems	\$4,068,762.72	\$3,357,143.70	N/A	\$2,425,812.02	N/A

# Components

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

·	Component Description:  Amount:	R&S 9500130379 v210208jgv2 \$47,835.00
Standby Exciter and Switch Additional Site Requirements	Information not provided.	
	Amount:	\$57,249.00
	Component Description:	R&S 9500119626 v201005jgv2
	Amount:	v210611jgv4 \$71,994.00
	Component Description:	R&S 9500134901
•	Component Description:  Amount:	R&S 9500119626 v201005jgv2 \$16,055.00
Additional Interior RF System		
	Amount:	v210611jgv4 \$5,611.00
UHF inside RF system including switching	Component Description:	R&S 9500134901
	Amount:	v190725jgv1 \$195,584.00
	Component Description:	R&S 9500098572
	Amount:	v190725jgv1 \$195,584.00
	Component Description:	R&S 9500092488
	Amount:	v190725jgv1 \$97,792.00
State Transmitter 14.2 - 20 kW	Component Description:	R&S 9500098573

Consolidation service		<b>D.O. 6-00</b> //
	Component Description:	R&S 9500119627
		v201013jgv2
	Amount:	\$12,453.00
3" Rigid Conduit and Wiring		
(Cost per foot)	Component Description:	R&S 9500119626
		v201005jgv2
	Amount:	\$115,000.00
Transformer 3 phase/480v - 300 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
UHF - Liquid Cooled Solid		
State Transmitter 35 - 50 kW	Component Description:	R&S 9500092489
		v190725jgv1
	Amount:	\$372,002.00
	Component Description:	R&S 9500119958
		v200929jgv1
	Amount:	\$186,001.00
	Component Description:	R&S 9500114433
		v200929jgv1
	Amount:	\$372,002.00

# **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
Primary Antenna TUF- BP4SP-12 /48USP-1-T	\$21,980.00	\$20,900.00		\$0.00	
Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	\$15,250.00	\$14,500.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N/A
Auxiliary Antenna TFU-12JSC- R BP230	\$134,110.00	\$157,363.49		\$152,363.49	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A

Side mount brackets for high power antennas (if not included in antenna base cost)  Elbow complex, single channel, at	\$23,150.00 \$9,570.00	\$16,425.00 \$8,055.00	N/A	\$16,425.00 \$8,055.00	N/A
complex, single	\$9,570.00	\$8,055.00	N/A	\$8,055.00	N/A
antenna input, per 4 1/16. feedline (if needed)					. 7/ .
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$121,483.49	See attached / uploaded PDF files titled "Die MAN01710 v210917jgv1. pdf" and "Die MAN01713 v210917jgv1. pdf"	\$121,483.49	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Sub-total	\$156,090.00	\$178,263.49	N/A	\$152,363.49	N/A
Total for all systems	\$4,068,762.72	\$3,357,143.70	N/A	\$2,425,812.02	N/A

# Components

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

Elbow complex, single channel, at antenna input, per 8 3/16. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description: Amount:	Die 1132034 v211103pmv1 \$1,642.50
	Component Description: Amount:	Die MAN01713 v210917jgv1 \$7,391.25
	Component Description: Amount:	Die MAN01710 v210917jgv1 \$7,391.25
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Component Description: Amount:	Die MAN01710 v210917jgv1 \$3,624.75
	Component Description: Amount:	Die MAN01713 v210917jgv1 \$3,624.75
	Component Description:	Die 1132034 v211103pmv1

UHF - Lower Power Side Mount, One station antenna **Component Description:** Die MAN01713 - medium power (50-200 v210917jgv1 kW), horizontally polarized \$54,667.57 Amount: **Component Description:** Die MAN01710 v210917jgv1 Amount: \$54,667.57 **Component Description:** Die 1132034 v211103pmv1 Amount: \$12,148.35 Sweep test of existing antenna **Component Description:** Die MAN01713 v210917jgv1 Amount: \$2,880.00 **Component Description:** Die MAN01710 v210917jgv1 Amount: \$2,880.00 **Component Description:** Die 1146031 v211109pmv2 Amount: \$640.00

## **Cost** Information

#### **Transmission Line**

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

Description Primary Transmission	Predetermined Cost Estimate \$6,400.00	Estimated Cost \$6,400.00	Estimated Cost Justification	Actual Cost \$4,316.23	Actual Cost Justification
Sweep Tests	\$6,400.00	\$6,400.00	N/A	\$4,316.23	N/A
Auxiliary Transmission Line	\$145,584.75	\$121,409.99		\$121,436.99	
Other Transmission Line Parts	\$17,784.75	\$17,784.75	N/A	\$17,784.75	N/A
Rigid Transmission Line - copper, 4 1 /16"	\$127,800.00	\$103,625.24	See attached / uploaded PDF files titled "Die MAN01710 v210917jgv1. pdf" and "Die MAN01713 v210917jgv1. pdf"	\$103,652.24	The totals are the same.
Sub-total	\$151,984.75	\$127,809.99	N/A	\$125,753.22	N/A
Total for all systems	\$4,068,762.72	\$3,357,143.70	N/A	\$2,425,812.02	N/A

### Components

Actual Information	
Description	File Name

	Component Description:	Sweep tests for
		existing
		transmission line
		on new channel for
		WLRN
	Amount:	\$4,360.27
	Component Description:	Amended
		expenses
		associated with the
		Sweep tests of
		existing Line WLRN
	Amount:	\$4,316.23
Other Transmission Line		
Parts	Component Description:	Die 1139028
		v211103pmv1
	Amount:	\$10,647.50
	Component Description:	Die 1140044
		v211103pmv1
	Amount:	\$4,123.50
	Component Description:	Die 1145036
		v211103pmv1
	Amount:	\$1,896.00
	Component Description:	Die 1139051
		v211103pmv1
	Amount:	\$1,117.75

Rigid Transmission Line - copper, 4 1/16"

Component Description: Die MAN01713

v210917jgv1

**Amount:** \$46,643.51

Component Description: Die 1134028

v211103pmv1

**Amount:** \$10,365.22

Component Description: Die MAN01710

v210917jgv1

**Amount:** \$46,643.51

# **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	\$657,800.00	\$724,029.25		\$317,254.25	
Tower Helicopter Lift	\$0.00	\$0.00	After further consideration it has been determined that a helicopter is not needed because the antenna can be re-used. 9-14-17-rg	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$299,029.25	See attached / uploaded PDF files titled "Die MAN01710 v210917jgv1. pdf" and "Die MAN01713 v210917jgv1. pdf"	\$299,029.25	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	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	\$18,225.00	N/A
Sub-total	\$657,800.00	\$724,029.25	N/A	\$317,254.25	N/A
Total for all systems	\$4,068,762.72	\$3,357,143.70	N/A	\$2,425,812.02	N/A

### Components

Actual Information Description	File Name	
Tower Helicopter Lift	Information not provided.	
Tall Tower (greater than 500')	Component Description: Amount:	Die MAN01710 v210917jgv1 \$130,109.06
	Component Description: Amount:	Die MAN01713 v210917jgv1 \$130,109.06
	Component Description: Amount:	Die 1146029 v211103pmv1 \$9,898.00
	Component Description: Amount:	Die 1146031 v211109pmv2 \$28,913.13
Major tower reinforcement /modifications	Information not provided.	

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Component Description: Die MAN01713

v210917jgv1

**Amount:** \$8,201.25

Component Description: Die 1140040

v211108pmv2

**Amount:** \$1,822.50

Component Description: Die MAN01710

v210917jgv1

**Amount:** \$8,201.25

# **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 (
Outside Professional Services	\$203,450.00	\$208,357.00		\$44,069.09	
Additional Field Engineering Service, 18 Days	\$36,000.00	\$36,000.00	N/A	\$3,412.09	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	\$7,360.00	\$7,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$1,500.00	N/A	\$1,500.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,250.00	N/A	\$1,250.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$1,500.00	N/A	\$1,500.00	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,500.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$1,000.00	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	\$18,286.00	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	\$18,286.00	N/A
Project management of the transition	\$26,544.00	\$25,200.00	N/A	\$2,250.00	N/A

Other	\$12,371.00	\$12,371.00	The Estimated	\$12,371.00	N/
Engineering			Cost includes		
Services			other		
			engineering		
			services such as		
			RF calculations,		
			evolving		
			transition plan		
			calculations, bid		
			spec prep /		
			distribution /		
			award		
			recommendation		
			/ etc and		
			discussion, etc.		
Sub-total	\$203,450.00	\$208,357.00	N/A	\$44,069.09	N/A
Total for all systems	\$4,068,762.72	\$3,357,143.70	N/A	\$2,425,812.02	N/A

### Components

Actual Information Description	File Name
Additional Field Engineering Service, 18 Days	Component Description: KGA 198-94 v201229jgv1 Amount: \$3,412.09
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description: Amount:	KGA 198-105 v201228jgv1 \$1,500.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	KGA 198-121 v210208jgv2 \$1,250.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Component Description: Amount:	KGA 198-00 v201229jgv1 \$1,500.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:  Amount:	Prepare engineering portion of Form 2100 construction permit main facility WLRN \$2,500.00
	Component Description:	Preparation of construction permit application for Main facility - WLRN. See KGA repack Services Proposal.
	Amount:	\$2,500.00

Perform engineering study for new channel **Component Description:** Perform assignment and antenna engineering study development for new channel assignment and antenna development WLRN \$1,000.00 Amount: **Component Description:** Preparation of engineering study for new channel assignment and antenna development -WLRN. See KGA repack Services Proposal. Amount: \$1,000.00 Address transition timing Information not provided. and coordination issues w/ other stations and wireless Prepare and or review reimbursement form **Component Description:** KGA 198-833 v210409jgv1 Amount: \$850.00 **Component Description:** KGA 198-836 v210617jgv1 Amount: \$108.00 **Component Description:** KGA 198-117 v201228jgv1 Amount: \$50.00 **Component Description:** KGA 198-832 v210409jgv1 **Amount:** \$625.00

v201228jgv1

**Amount:** \$1,475.00

Component Description: KGA 198-835

v210511jgv1

**Amount:** \$600.00

Component Description: KGA 198-848

v211130jgv1

**Amount:** \$1,566.00

Component Description: KGA 198-843

v210811jgv1

**Amount:** \$297.00

Component Description: KGA 198-829

v210111jgv1

**Amount:** \$3,200.00

Component Description: KGA 198-830

v210208jgv1

**Amount:** \$1,900.00

Component Description: KGA 198-122

v210122jgv1

**Amount:** \$375.00

Component Description: KGA 198-828

v210111jgv1

**Amount:** \$1,950.00

Component Description: KGA 198-124

v201221jgv1

**Amount:** \$200.00

v211104pmv1

**Amount:** \$1,088.00

Component Description: Prepare original

Schedule 399 budget for reimbursement

WLRN

**Amount:** \$2,500.00

Component Description: KGA 198-845

v210909jgv1

**Amount:** \$54.00

Component Description: Preparation of FCC

Form 399 for reimbursement -WLRN. See KGA repack Services

Proposal.

**Amount:** \$2,500.00

Component Description: KGA 198-840

v210729jgv1

**Amount:** \$729.00

Component Description: KGA 198-850

v211029pmv1

**Amount:** \$594.00

Component Description: KGA 198-110

v201228jgv1

**Amount:** \$125.00

Project management of the transition

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-100

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-98

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-125

v210112jgv1

**Amount:** \$150.00

Component Description: KGA 198-123

v210122jgv1

**Amount:** \$150.00

Component Description: KGA 198-107

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-112

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-834

v210415jgv1

**Amount:** \$150.00

Component Description: KGA 198-114

v201229jgv1

**Amount:** \$150.00

v211130jgv1

**Amount:** \$150.00

Component Description: KGA 198-102

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-841

v210729jgv1

**Amount:** \$150.00

Component Description: KGA 198-95

v210706jgv1

**Amount:** \$150.00

Component Description: KGA 198-106

v201229jgv1

**Amount:** \$150.00

Component Description: KGA 198-120

v201229jgv1

**Amount:** \$150.00

Other Engineering Services

Component Description: KGA 198-846

v211007jgv1

**Amount:** \$200.00

Component Description: KGA 198-119

v201228jgv1

**Amount:** \$1,350.00

Component Description: KGA 198-831

v210409jgv1

**Amount:** \$150.00

v201228jgv1

**Amount:** \$575.00

Component Description: KGA 198-827

v210111jgv1

**Amount:** \$550.00

Component Description: KGA 198-108

v201228jgv1

**Amount:** \$2,150.00

Component Description: KGA 198-99

v201228jgv1

**Amount:** \$318.00

Component Description: KGA 198-103

v210105jgv2

**Amount:** \$925.00

Component Description: KGA 198-838

v210617jgv1

**Amount:** \$1,728.00

Component Description: KGA 198-111

v210105jgv2

**Amount:** \$1,250.00

Component Description: KGA 198-826

v210111jgv1

**Amount:** \$100.00

Component Description: KGA 198-113

v201228jgv1

**Amount:** \$75.00

v201229jgv1

**Amount:** \$1,250.00

Component Description: KGA 198-93

v210706jgv1

**Amount:** \$1,750.00

# **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	\$284,151.97	\$277,221.97		\$41,209.97	
WLRN Site specific	\$57,249.00	\$57,249.00	See attached / uploaded PDF file titled "R&S 9500119626 v201002jgv1. pdf"	\$0.00	N/A
Electrical Services	\$115,000.00	\$115,000.00	See attached / uploaded PDF file titled "R&S 9500119626 v201002jgv1. pdf"	\$0.00	N/A
Consolidation service	\$12,453.00	\$12,453.00	See attached / uploaded PDF file titled "R&S 9500119627 v201002jgv1. pdf"	\$0.00	N/A
Additional parts	\$16,055.00	\$16,055.00	See attached / uploaded PDF file titled "R&S 9500119626 v201002jgv1. pdf"	\$0.00	N/A

Total for all systems	\$4,068,762.72	\$3,357,143.70	N/A	\$2,425,812.02	N/A
Sub-total	\$284,151.97	\$277,221.97	v201229jgv1. pdf" N/A	\$41,209.97	N/A
DTV Medical Facility Notification	\$11,550.00	\$4,620.00	See attached / uploaded PDF file titled "KGA 198-97	\$4,620.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	Amended 9- 14-17-rg	N/A	N/A
Equipment Delivery and Handling Charges	\$25,119.97	\$25,119.97	amended 9- 14-17-rg	\$25,119.97	N/A
Equipment Storage	\$20,000.00	\$20,000.00	N/A	\$9,745.00	N/A
Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$1,725.00	\$1,725.00	See attached / uploaded PDF file titled "KGA 198-96 v201229jgv1. pdf"	\$1,725.00	N/A

### Components

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

	Component Description: Amount:	R&S 9500119626 v201002jgv1 \$57,249.00
Electrical Services	Component Description: Amount:	R&S 9500119626 v201002jgv1 \$115,000.00
Consolidation service	Component Description:  Amount:	This invoice is being applied to a different component instead N/A
Additional parts	Component Description: Amount:	R&S 9500119626 v201002jgv1 \$16,055.00
MVPD Notification of Channel Change	Component Description: Amount:	KGA 198-96 v201229jgv1 \$1,725.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Component Description: Amount:	R&S 9500130273 v210115jgv1 \$9,745.00

Equipment Delivery and Handling Charges		
nandling Charges	<b>Component Description:</b>	R&S 9500134901
		v210611jgv4
	Amount:	\$5,834.00
	Component Description:	Die 1146029
		v211103pmv1
	Amount:	\$972.63
	Component Description:	Die 1140044
		v211103pmv1
	Amount:	\$1,886.05
	Component Description:	Die 1141032
		121105pmv2b
	Amount:	\$16,427.29
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility		
Notification	Component Description:	KGA 198-97
		v201229jgv1
	Amount:	\$4,620.00

# Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,068,762.72	\$3,357,143.70	\$2,425,812.02

Reimbursem	entestiatus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	Construction of final facilities or all necessary modifications are complete.	Yes
	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.	Yes

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. Jeffrey C Gehman Engineering Associate

11/30/2021

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. Jeffrey C Gehman Engineering Associate

11/30/2021

Section Question Response

#### Submission of Final Allocation or Accounting Information 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 and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The abovenamed entity acknowledges that all certifications and attached documentation are considered material representations.
- 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
- 4. 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.
- 5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 6. 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. Jeffrey C Gehman Engineering Associate

11/30/2021

#### **Attachments**