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: **51241** | Service: **DTV** | Call Sign: **KALO** | Channel: **18 (UHF)**

File Number: **0000026151**

FRN: **0019041623** | Date Submitted: **08/06/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KALO TV, INC.	Brent Keane P.O. BOX 1256 HONOLULU, HI 96807 United States	+1 (808) 596-4417	Brent@KALOTV.COM	Not-for-Profit

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
Anne Goodwin Crump *FCC Attorney* *Fletcher, Heald & Hildreth, P. L.C.*	Anne Goodwin Crump 1300 N 17th St. 11th Floor Arlington, VA 22209 United States	+1 (703) 812-0426	crump@fhhlaw.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.	Yes
Briefly describe transition plan	Modified plan. KALO will move to nearby site. Will require new electrical and HVAC system, transmitter, and transmission system in existing building. Will share with KKAI the combiner, external transmission line, antenna, and new wooden support pole.

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 and Type	Manufacturer	
	Model	DXD-10U
	Year	2009
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.0 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	TMU-9
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.2 kW
	Justification for New Transmitter	Existing Pineapple Technology Transmitter unsupported (company out-of-business) and cannot be retuned.

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	1.5 inches
	Length	60.0 feet

	Other Electrical Service	Yes
	Description	New service panel, small conduit, and electrical outlets.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	150.0 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

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Security and Fencing for Main Transmitter	A 50ft fence is for protection and security for access to the KALO room and associated equipment and is required by the site manager.

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ACT-TRN-5X-U-28-C
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.2 kW
	Justification for New Transmitter	Existing Pineapple Transmitter is no longer supported - company is out of business and there are no engineers to retune. This Interim transmitter is required to accommodate channel repack while permanent location undergoes construction and preparation.

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
	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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

Interim Transmitter

Other Transmitter Cost Not Listed

Name	Description
Interim Transmitter Installation	Includes installation of interim transmitter and removal of existing transmitter

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?	Yes
	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	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	8
	Design power capacity in use	67.0 %
	Lower Limit	470.00 MHz
	Upper Limit	800.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	5.0 kW

Manufacturer	
Model	955518
Year	2009

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
3246	KAAH-TV

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?	Yes
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	12
	Lower Limit	470.00 MHz
	Upper Limit	620.00 MHz
	Design power capacity in use	4.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	50.0 kW
	Manufacturer	

	Model	JUHD 10/2 (20 panel) Narrow Cardioid
	Year	2018
	Justification for New Antenna	Current antenna is 18 years old, cannot accommodate new channel, and is not retunable. New antenna to be shared by two or more stations.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	No
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 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?	No

Enter a list of RF channel numbers.

RF Channel Number
29
18

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

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?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Middle
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	4
	Lower Limit	494.00 MHz
	Upper Limit	500.00 MHz
	Design power capacity in use	60.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	74.0 kW
	Manufacturer	
	Model	K723147
	Year	2018

	Justification for New Antenna	Interim antenna required while permanent location undergoes construction and preparation for transition.

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?	No
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?	No

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	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?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Flexible Foam
	Diameter	1 5/8 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	105 feet per run

Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
3246	KAAH-TV

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	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	128 feet per run
	Justification for New Transmission Line	Moving to site shared with KKAI. Costs lower than existing site. Old transmission line is 12 - 14 years old, deteriorated from exposure to weather, can't be bent again, and is too short to reuse.

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Interior Transmission Line	Line from KALO-TV transmitter room to KKAI-TV transmitter room combiner. Approximately 60' 1-5/8" hard line.

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	7/8 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	200 feet per run
	Justification for New Transmission Line	Interim transmission line required while permanent location undergoes construction and preparation.

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	Construct New
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1218023
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	21° 23' 33.6" N-
	Longitude (NAD83)	158° 05' 48.1" W-
	Overall Structure Height	198.82 feet
	Support Structure Height	198.82 feet
	Ground Elevation Above Mean Sea Level (AMSL)	2280.48 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Salem Media of Hawaii
Date Constructed	10/03/2000

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
81538	KLHT-FM	FM
10950	KAIM-FM	FM
38244	KDDB	FM
3246	KAAH-TV	DTV
16745	KQMQ-FM	FM
51241	KALO	DTV
36242	KORL-FM	FM

Primary Tower

Tower Construction Costs

Section	Question	Response
Construct New Tower	Use	Primary (Main)
	Description of Use	N/A
	Is this a request for upgraded equipment?	No
	Height	100.00 feet
	Justification for New Tower	Existing pole is termite-ridden and unable to support new mounts and hanging of new transmission line.

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

Name	Description
Pole Installation Expenses	Site preparation (clearing, hole drilling, concrete), rigging, shipping

Interim Tower

Tower Construction Costs

Section	Question	Response
Construct New Tower	Use	Interim
	Description of Use	N/A
	Height	198.82 feet
	Justification for New Tower	KALO-TV will renew lease with Salem Media on their existing tower for the duration of their interim period. The primary transmission location will not be completed in time for the Phase 2 cut over date . KALO-TV IS NOT CONSTRUCTING A NEW INTERIM TOWER.

Interim Tower

Tower Rigging Costs

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

Interim Tower

Other Tower Expenses Not Listed

Name	Description
Interim Tower Rigging	Cost to install and remove interim equipment. Please see attached OPM Services LLC Quote rev 5 and cover letter for KALO interim site

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	950
	Explanation	KALO does not have its own engineering staff. Consultants will provide filing, technical installation, and communication with MVPDs for permanent and interim sites. Involves travel from California. Involves new station owner and new shared use agreement.
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	Yes
	Number of Days	36

	Justification	Installation of the transmitter and supporting systems. 2 persons, one local, one traveling. Estimated 8 days for interim site alone.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
File for STL PCN and STL FCC License	Required for interim transmission site to function legally and without loss of market.
RF Upgrade Engineering and FCC Filing	Required for interim transmission site to function legally and without loss of market.

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	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
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
Legal Work	Required to create Shared Use Agreement, assist with leases, utility agreements. New station ownership.
TRAVEL - GSA - Per Person Per Trip	Required to bring appropriately trained staff and support to interim transmission site in a timely manner - estimated at $4,750 per person per trip.
ASI-to-IP converter, Dektec DTE-3120	Required to maintain interim transmission site without loss of market
STL transmitter and receiver, SAF or equiv. 7 GHz	Required to maintain interim transmission site without loss of market

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
Interim Transmitter ACT-TRN-5X-U-28-C	**$138,000.00**	**$67,802.80**		**$55,802.80**	
Interim Transmitter Installation	***$12,000.00***	$12,000.00	Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	$126,000.00	$55,802.80	Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site; Justifying Quote 399-#TX-Freight-Quote (shipping)	$55,802.80	N/A
Primary Transmitter TMU-9	**$257,499.64**	**$282,864.55**		**$251,629.84**	
Security and Fencing for Main Transmitter	***$10,181.70***	$10,181.70	Justification Letter - OPM Invoice for Primary Transmitter Site Security and Site Fencing	$10,181.70	N/A

Other -- Building Addition Size: 150.0	***$71,126.54***	$71,126.54	Modifying Pre-WWII building to construct transmitter room for KALO at shared primary transmission site. OPM to provide Quote; Justifying Quote - 399-RoomBuild-Quote	$71,126.54	invoices
5 Ton system	$20,250.00	$33,614.91	Redundant split-system, 5 ton. OPM to provide quote; Justifying Quote - KALO 399-HVAC-Quote	$33,614.91	N/A
Other Electrical Service: New service panel, small conduit, and electrical outlets.	***$25,391.40***	$25,391.40	Reusing room that had been stripped of electrical system. New 240 VAC single-phase system, breaker panel, conduit, six outlets. Very remote Hawaii location; Justifying Quote - KALO 399-RoomElectrical-Quote	$25,391.40	N/A
1.5" Rigid Conduit and Wiring	***$4,550.00***	$4,550.00	Electrical meter and service from main.	N/A	N/A

UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	$126,000.00	$138,000.00	OPM to provide quote.	$111,315.29	N/A
Sub-total	$395,499.64	$350,667.35	N/A	$307,432.64	N/A
Total for all systems	$1,744,087.94	$1,864,762.95	N/A	$769,783.64	N/A

Components

Actual Information Description	File Name	
Interim Transmitter Installation	Information not provided.	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	**Component Description:** **Amount:** **Component Description:** **Amount:**	Anywave Transmitter INTERIM SITE - ACT-TRN-5X-U-28-C 2.2KW ACT-EXC-OPT-TSoIP $54,280.00 Freight charge to ship Anywave Tx from manufacturer to Hawaii docks $1,522.80
Security and Fencing for Main Transmitter	**Component Description:** **Amount:**	KALO-110-Primary Transmitter - Fencing and Security $10,181.70

Other -- Building Addition Size: 150.0	**Component Description:** **Amount:**	Replace Gyupsum-ceiling, walls, door, flooring and kick plate $35,185.92
	Component Description: **Amount:**	"Outdoor meter, meter sockets, weatherhead, grounding and main breaker Includes local tax" $35,940.62
	Component Description: **Amount:**	Renovate 2nd floor room in WWII Building $19,359.65
5 Ton system	**Component Description:** **Amount:**	Mitsubishi Split Systems (single zone 2EA) $33,614.91
Other Electrical Service: New service panel, small conduit, and electrical outlets.	**Component Description:** **Amount:**	KALO-110-Primary Transmitter - Other Electrical $25,391.40
1.5" Rigid Conduit and Wiring	Information not provided.	

UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	**Component Description:**	20KW 3 Phase diesel generator
	Amount:	$56,810.91
	Component Description:	KALO-110-Primary Transmitter
	Amount:	$375.00
	Component Description:	Running approximately 140 feet of conduit and wire
	Amount:	$47,889.38
	Component Description:	Pour raised concrete generator pad at KALO permanent site includes tax
	Amount:	$6,240.00

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 K723147	**$89,400.00**	**$10,274.00**		**$10,274.00**	
UHF â€“ Broadband Panel, Side Mount Auxiliary /Interim, 74 horizontally polarized	***$0.00***	$0.00	PHANTOM ANTENNA, PLEASE IGNORE /DELETE	N/A	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	$89,400.00	$10,274.00	Used Kathrein antenna - Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site; Justifying quote - 399-#16-02192019-shipping-quote	$10,274.00	N/A
Primary Antenna JUHD 10/2 (20 panel) Narrow Cardioid	**$295,350.00**	**$361,500.00**		**$0.00**	

New combiner, cost per channel (without antenna)	$84,200.00	$144,000.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install and commissioning. KALO cost will be $72,000.00 plus shipping and install and commissioning	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$29,500.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install and commissioning. KALO cost will be $14,750.00 plus shipping and install and commissioning	N/A	N/A
UHF - High Power, Side Mount, broadband panel, 12 bay,, 50 kW input, directional,, horizontally polarized	***$188,000.00***	$188,000.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install and commissioning. KALO cost will be $94,000.00 plus shipping and install and commissioning	$0.00	N/A
Sub-total	$384,750.00	$371,774.00	N/A	$10,274.00	N/A
Total for all systems	$1,744,087.94	$1,864,762.95	N/A	$769,783.64	N/A

Components

Actual Information Description	File Name
UHF â€“ Broadband Panel, Side Mount Auxiliary/Interim, 74 horizontally polarized	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	**Component Description:** KALO-280-Interim Antenna - Kathrein K723147 **Amount:** $8,500.00 **Component Description:** Shipping Antenna for Interim Site - delivery to dock and then transport to mountain site **Amount:** $1,774.00
New combiner, cost per channel (without antenna)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
UHF - High Power, Side Mount, broadband panel, 12 bay,, 50 kW input, directional,, horizontally polarized	Information not provided.

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	**$3,600.00**	**$5,000.00**		**$5,000.00**	
Flexible Air Transmission Line - dielectric, 7/8"	$3,600.00	$5,000.00	Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site	$5,000.00	N/A
Primary Transmission Line	**$24,272.00**	**$52,720.00**		**$0.00**	
Interior Transmission Line	***$16,720.00***	$16,720.00	Please see attached OPM Quote KALO09211A - 60 feet 1-5/8" EIA line between transmitter and combiner, includes connectors and support.	N/A	N/A

Flexible Air Transmission Line - dielectric, 3"	$7,552.00	$36,000.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install. KALO cost will be $18,000.00 plus shipping and install.	N/A	N/A
Sub-total	$27,872.00	$57,720.00	N/A	$5,000.00	N/A
Total for all systems	$1,744,087.94	$1,864,762.95	N/A	$769,783.64	N/A

Components

Actual Information Description	**File Name**	
Flexible Air Transmission Line - dielectric, 7/8"	**Component Description:** **Amount:**	KALO-380-Interim Transmission Line - 7/8" Flexible Air $5,000.00
Interior Transmission Line	Information not provided.	
Flexible Air Transmission Line - dielectric, 3"	Information not provided.	

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	**$0.00**	**$0.00**		**$0.00**	
Interim Tower	**$100,200.00**	**$31,000.00**		**$0.00**	
New tower	***$0.00***	$0.00	KALO-TV will not be constructing a new interim tower. This category is a limitation of LMS. PLEASE IGNORE.	N/A	N/A
Short Tower (less than 500')	$84,200.00	$15,000.00	KALO-TV will extend the lease on their existing tower. They are not constructing a new tower. Please see attached OPM Services LLC Quote rev 5 and cover letter for interim site	N/A	N/A

Interim Tower Rigging	***$16,000.00***	$16,000.00	Rigging costs for interim equipment on existing tower. Please see attached OPM Services LLC Quote rev 5 and cover letter for interim site	N/A	N/A
Primary Tower	**$324,200.00**	**$321,900.00**		**$0.00**	
Pole Installation Expenses	***$29,000.00***	$29,000.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install. KALO cost will be $14,500.00 plus shipping and install.	N/A	N/A
Tower Helicopter Lift	***$23,000.00***	$23,000.00	KKAI to provide quote. This will be a 50% shared cost. KALO cost will be $11,500.00.	N/A	N/A

Short Tower (less than 500')	$84,200.00	$81,900.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install. KALO cost will be $40,950.00 plus shipping and install.	N/A	N/A
New tower	***$188,000.00***	$188,000.00	KKAI to provide quote. This will be a 50% shared cost plus shipping and install. KALO cost will be $94,000.00 plus shipping and install.	N/A	N/A
Sub-total	$424,400.00	$352,900.00	N/A	$0.00	N/A
Total for all systems	$1,744,087.94	$1,864,762.95	N/A	$769,783.64	N/A

Components

Information not provided.

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	**$366,771.30**	**$594,630.00**		**$394,135.40**	
RF Upgrade Engineering and FCC Filing	***$4,250.00***	$4,250.00	Please see attached quote from OPM Services LLC regarding interim transmission site costs.	N/A	N/A
File for STL PCN and STL FCC License	***$11,251.30***	$11,251.30	May be required for interim site. Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site; invoices Starn O'Toole Marcus & Fisher, 53629-FCC Repack	$11,251.30	N/A

Additional Field Engineering Service, 36 Days	***$61,000.00***	$61,000.00	Please see attached quote from OPM Services LLC regarding interim transmission site costs. KALO anticipates 8 days of work for interim site alone. KALO has no Operations and Engineering staff. All field services will be performed by third party.	$17,475.00	N/A
RF Exposure Measurements	$21,050.00	$13,200.00	Please see attached proposal from Smith and Fisher - Power Density Survey of Constructed KALO-DT on Channel 18	N/A	N/A

Comprehensive coverage verification via field study, if needed	$84,200.00	$35,000.00	OPM to provide quote. KALO has no Operations and Engineering staff. All field coverage pre /post signal survey will be performed by third party.	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,200.00	N/A	$0.00	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	$4,210.00	$4,000.00	N/A	$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,300.00	N/A	$0.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,200.00	Required revisions due to new ownership and shared use agreement.	$0.00	N/A

Perform engineering study for new channel assignment and antenna development	$7,360.00	$8,400.00	OPM to provide quote. Please see Smith and Fisher Proposal for Preparation of the Engineering Portion of the FCC Application for Interim Facility for additional 1,750.00 budget increase; Justifying Invoice - KALO OPM 399-#17-04012019	$1,875.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$12,000.00	OPM to provide quote for three trips to the location to coordinate with other stations. KALO has no on-site Operations and Engineering staff.	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

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$5,750.00	Required revision due to shared use agreement and new station ownership. Please see attached proposal from Smith & Fisher for additional $750 budget increase from previously approved amount.	N/A	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	N/A
Project management of the transition	$150,100.00	$422,018.70	See Widelity and OPM quotes, inc increase d/t addition of interim site. Substantial costs d/t transition of ownership, transition to shared site, travel to/ from San Diego. Coordination with other parties. Justifying Invoice - KALO OPM 399-#17-04012019	$363,534.10	N/A

Prepare and or review reimbursement form	$2,630.00	$2,560.00	OPM to provide quote.	N/A	N/A
Sub-total	$366,771.30	$594,630.00	N/A	$394,135.40	N/A
Total for all systems	$1,744,087.94	$1,864,762.95	N/A	$769,783.64	N/A

Components

Actual Information Description	File Name
RF Upgrade Engineering and FCC Filing	Information not provided.
File for STL PCN and STL FCC License	**Component Description:** Legal Services **Amount:** $10,518.84 **Component Description:** Legal services **Amount:** $732.46
Additional Field Engineering Service, 36 Days	**Component Description:** KALO-530-RF - Additional Engineering Days **Amount:** $17,475.00
RF Exposure Measurements	Information not provided.
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 - Negotiation of lease and other matters for shared locations	Information not provided.

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	KALO-530-RF Eng new channel study $1,875.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
Project management of the transition	**Component Description:** **Amount:** **Component Description:** **Amount:**	Project Management $4,031.75 Project Manage FCC Repacking - local coordination, RF Tx and current and new site coordination and legal coordination $13,500.00

Component Description:	Write KALO RF Upgrade report
Amount:	$10,612.50
Component Description:	Project Management
Amount:	$3,657.35
Component Description:	Project Manage FCC Repacking - local coordination, RF Tx and microwave frequenies (STL /TSL) current and new site coordination and legal coordination
Amount:	$14,212.50
Component Description:	Prepare Tx revised site Rack Elevations, update BOM, dataflow dwg
Amount:	$25,162.50
Component Description:	"Review, planning, updates, strategy for repacking move of 38, install of 18 and total State coverage via cable/RF"
Amount:	$8,250.00

Component Description:	Prepare Tx revised site Rack Elevations, update BOM, dataflow dwg - both Interim and Final site
Amount:	$14,475.00
Component Description:	Flight to / From Hawaii, Per Diem /Incidentals - GSA, RentalCar
Amount:	$9,075.00
Component Description:	Created KALO preliminary project budget spreadsheet, researched antenna systems from MCI, conducted transmission site research using online FCC data.
Amount:	$16,360.00
Component Description:	Project Manage FCC Repacking - local coordination, RF Tx and current and new site coordination and legal coordination
Amount:	$10,612.50

Component Description:	Project Manage FCC Repacking - local coordination, RF Tx and microwave frequencies (STL /TSL) current and new site coordination and legal coordination
Amount:	$11,587.50
Component Description:	Repack Project meetings
Amount:	$3,975.00
Component Description:	Prepare Tx site Rack Elevations, update BOM, dataflow dwg
Amount:	$26,062.50
Component Description:	KALO-510-Outside Project Management of the Transition - includes Widelity and OPM
Amount:	$750.00
Component Description:	Engineering design, oversight and project management
Amount:	$450.00
Component Description:	RentalCar
Amount:	$23,400.00

Component Description:	Project Management
Amount:	$18,027.90
Component Description:	Repacking Monthly hours for soliciting, reviewing and consolidating
Amount:	$7,312.50
Component Description:	KALO-510-Outside Project Management of the Transition - includes Widelity and OPM
Amount:	$3,000.00
Component Description:	Working with KKAI on tower purchase and install planning
Amount:	$6,150.00
Component Description:	Project management, oversight, quality control
Amount:	$1,050.00
Component Description:	Project Manage FCC Repacking - local coordination, RF Tx, FCC reports
Amount:	$14,700.00

Component Description:	Project manage. Oversight, Quality control
Amount:	$2,700.00
Component Description:	Project Management
Amount:	$8,619.35
Component Description:	KALO-510-Outside Project Management of the Transition - includes Widelity and OPM
Amount:	$450.00
Component Description:	3rd party transportation of transmitter from Hawaii dock to transmitter site-fixed price
Amount:	$16,762.50
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00

Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00
Component Description:	Consulting
Amount:	$2,500.00
Component Description:	Consulting
Amount:	$2,500.00
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Component Description:	Consulting
Amount:	$2,500.00
Component Description:	Consulting
Amount:	$2,500.00
Component Description:	Consulting
Amount:	$2,500.00
Component Description:	Project Manage. Oversight, Quality control
Amount:	$2,700.00
Component Description:	Prepare Tx revised site Rack Elevations, update BOM, dataflow dwg and local site infrastrcutre - both Interim and Final site
Amount:	$17,025.00
Component Description:	Working with KKAI on tower purchase and install planning
Amount:	$6,450.00
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00

Component Description:	Working with KKAI on tower purchase and install planning
Amount:	$19,837.50
Component Description:	Project Management
Amount:	$3,830.70
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00
Component Description:	Project Management
Amount:	$3,717.90
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00

Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00
Component Description:	Project Management
Amount:	$3,696.80
Component Description:	Project management
Amount:	$2,404.85
Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement.
Amount:	$2,500.00
Component Description:	Project Manage FCC Repacking - local coordination, RF Tx and current and new site coordination and legal coordination
Amount:	$8,550.00
Component Description:	Project Management
Amount:	$6,955.70
Component Description:	Project Management
Amount:	$5,795.30

	Component Description: **Amount:**	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement. $2,500.00
	Component Description: **Amount:**	Consultation for the spectrum repack of KALO-TV in Hawaii as per agreement. $2,500.00
	Component Description: **Amount:**	Review, discussion research move to Racine PJ, Tom, Gary, Anne, Gary, Kevin $6,600.00
	Component Description: **Amount:**	Project Management $1,024.00
Prepare and or review reimbursement form	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 Cos Justificati
Other Expenses	**$144,795.00**	**$137,071.60**		**$52,941.60**	
STL transmitter and receiver, SAF or equiv. 7 GHz	***$35,000.00***	$35,000.00	May be Required for interim transmission site. Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site	N/A	N/A
Legal Work	***$27,000.00***	$27,000.00	Generation of Shared Use Agreement, lease documents, review of revised Form 399.	N/A	N/A
Equipment Storage	***$1,800.00***	$1,800.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	$1,110.00	$1,070.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$335.00	FCC Filing Fee as of September 2018	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	$195.00	$200.00	FCC filing fee effective September 2018	N/A	N/A
Equipment Delivery and Handling Charges	***$4,800.00***	$4,800.00	Delivery to storage and to very remote Hawaiian location.	N/A	N/A
Develop and air announcement of upcoming channel change	***$6,000.00***	$6,000.00	Please see attached quote # 1030 from PJ Video - Independent producer to be used for the announcements.	N/A	N/A
MVPD Notification of Channel Change	***$300.00***	$300.00	2 hours labor.	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$3,861.60	Per Justifying Quote OPM Services 399-DTV Notification	$3,861.60	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$5,500.00***	$5,500.00	Hauling and disposal of used antennas and feedline.	$375.00	N/A

TRAVEL - GSA - Per Person Per Trip	***$48,705.00***	$48,705.00	Required in order to accommodate staff and personnel for proper installation of interim transmission site. Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site; Justifying Invoice - KALO OPM 399-#18-April Travel	$48,705.00	N/A
ASI-to-IP converter, Dektec DTE-3120	***$2,500.00***	$2,500.00	Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site	N/A	N/A
Sub-total	$144,795.00	$137,071.60	N/A	$52,941.60	N/A
Total for all systems	$1,744,087.94	$1,864,762.95	N/A	$769,783.64	N/A

Components

Actual Information Description	File Name
STL transmitter and receiver, SAF or equiv. 7 GHz	Information not provided.
Legal Work	Information not provided.
Equipment Storage	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.

FCC Filing Fees - Special Temporary Authorization request	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.
DTV Medical Facility Notification	**Component Description:** DTV Notification Service **Amount:** $3,861.60
Disposal Costs (for equipment and other waste, net of any salvage value)	**Component Description:** KALO-610-Disposal Costs **Amount:** $375.00

TRAVEL - GSA - Per Person Per Trip	**Component Description:** **Amount:**	Travel Day- Gary Stigal Round Trip $13,230.00
	Component Description: **Amount:**	Roundtrip travel San Diego to Hawaii and back $3,345.00
	Component Description: **Amount:**	Paul labor travel to Roundtrip Hawaii- San Diego $11,340.00
	Component Description: **Amount:**	Gary labor travel to Hawaii $10,395.00
	Component Description: **Amount:**	Gary labor travel to Hawaii $10,395.00
ASI-to-IP converter, Dektec DTE-3120	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$1,744,087.94	$1,864,762.95	$769,783.64

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.	**Tom Jordan** *Secretary /Treasurer /Chief Financial Officer* 08/06/2019

Certification

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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. 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 above-named applicant for the Authorization(s) specified above.	**Tom Jordan** *Secretary /Treasurer /Chief Financial Officer* 08/06/2019

Attachments