



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **51241** | Service: **DTV** | Call **KALO** | Channel: **18 (UHF)** |
ID: | Sign:
File **0000026151**
Number:
FRN: **0019041623** | Date **02/28**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KALO TV, INC.	Malala Pou P.O. BOX 1256 HONOLULU, HI 96807 United States	+1 (808) 596-4417	Malala@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 <i>FCC Attorney</i> <i>Fletcher, Heald & Hildreth, P. L.C.</i>	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	2.4 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 leasehold 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 leasehold 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 **New Transmission Line**
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 **Other Transmission Line Expenses Not Listed**
Transmission Line

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

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

Other Professional Services Expenses Not Listed

Services Costs

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.
PJ Video Engineering Consulting	Engineering Consulting

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
ASI-to-IP converter, Dektec DTE-3120	Required to maintain interim transmission site without loss of market
Legal Work	Required to create Shared Use Agreement, assist with leases, utility agreements. New station ownership.
STL transmitter and receiver, SAF or equiv. 7 GHz	Required to maintain interim transmission site without loss of market
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.
Accounting	Additional Accounting Services required as part of repack

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	
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
Interim Transmitter Installation	<i>\$12,000.00</i>	\$12,000.00	Please see attached OPM Services LLC Quote rev 3 and cover letter for KALO interim site	\$0.00	N/A
Primary Transmitter TMU-9	\$305,389.02	\$411,511.74		\$389,241.73	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$218,757.81	Please see attached OPM Services Quote 399-Tx-PermSite-equip R1 and Estimated Cost Justification KALO-110-Primary Transmitter v0	\$201,037.80	N/A

1.5" Rigid Conduit and Wiring	\$4,550.00	\$4,550.00	Electrical meter and service from main.	\$0.00	N/A
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.	\$73,280.78	\$73,280.78	Reusing room that had been stripped of the electrical system. New 240 VAC single-phase system, breaker panel, conduit, six outlets. Justifying Quote - KALO 399-RoomElectrical-Quote and Quote Kalo Permanent Site TX-Electrical.	\$73,280.78	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

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
Sub-total	\$443,389.02	\$479,314.54	N/A	\$445,044.53	N/A
Total for all systems	\$1,774,181.71	\$2,195,019.69	N/A	\$1,263,525.82	N/A

Components

Actual Information	
Description	File Name
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	<p>Component Description: Anywave Transmitter INTERIM SITE - ACT-TRN-5X-U-28-C 2.2KW ACT-EXC-OPT-TSoIP</p> <p>Amount: \$54,280.00</p> <p>Component Description: Freight charge to ship Anywave Tx from manufacturer to Hawaii docks</p> <p>Amount: \$1,522.80</p>
Interim Transmitter Installation	Information not provided.

UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	<table> <tr> <td data-bbox="707 98 1145 309"> Component Description: Amount: </td><td data-bbox="1145 98 1426 309"> KALO-110-Primary Transmitter \$375.00 </td></tr> <tr> <td data-bbox="707 309 1145 667"> Component Description: Amount: </td><td data-bbox="1145 309 1426 667"> Pour raised concrete generator pad at KALO permanent site includes tax \$6,240.00 </td></tr> <tr> <td data-bbox="707 667 1145 913"> Component Description: Amount: </td><td data-bbox="1145 667 1426 913"> Please deny this invoice N/A </td></tr> <tr> <td data-bbox="707 913 1145 1137"> Component Description: Amount: </td><td data-bbox="1145 913 1426 1137"> 20KW 3 Phase diesel generator \$56,810.91 </td></tr> <tr> <td data-bbox="707 1137 1145 1339"> Component Description: Amount: </td><td data-bbox="1145 1137 1426 1339"> 2.4kW ATSC Tx System \$137,611.89 </td></tr> </table>	Component Description: Amount:	KALO-110-Primary Transmitter \$375.00	Component Description: Amount:	Pour raised concrete generator pad at KALO permanent site includes tax \$6,240.00	Component Description: Amount:	Please deny this invoice N/A	Component Description: Amount:	20KW 3 Phase diesel generator \$56,810.91	Component Description: Amount:	2.4kW ATSC Tx System \$137,611.89
Component Description: Amount:	KALO-110-Primary Transmitter \$375.00										
Component Description: Amount:	Pour raised concrete generator pad at KALO permanent site includes tax \$6,240.00										
Component Description: Amount:	Please deny this invoice N/A										
Component Description: Amount:	20KW 3 Phase diesel generator \$56,810.91										
Component Description: Amount:	2.4kW ATSC Tx System \$137,611.89										
1.5" Rigid Conduit and Wiring	Information not provided.										
5 Ton system	<table> <tr> <td data-bbox="707 1451 1145 1742"> Component Description: Amount: </td><td data-bbox="1145 1451 1426 1742"> Mitsubishi Split Systems (single zone 2EA) \$33,614.91 </td></tr> </table>	Component Description: Amount:	Mitsubishi Split Systems (single zone 2EA) \$33,614.91								
Component Description: Amount:	Mitsubishi Split Systems (single zone 2EA) \$33,614.91										

<p>Other Electrical Service: New service panel, small conduit, and electrical outlets.</p>	<table> <tr> <td>Component Description:</td><td>KALO-110-Primary Transmitter - Other Electrical</td></tr> <tr> <td>Amount:</td><td>\$25,391.40</td></tr> <tr> <td>Component Description:</td><td>Running approximately 140 feet of conduit and wire</td></tr> <tr> <td>Amount:</td><td>\$47,889.38</td></tr> </table>	Component Description:	KALO-110-Primary Transmitter - Other Electrical	Amount:	\$25,391.40	Component Description:	Running approximately 140 feet of conduit and wire	Amount:	\$47,889.38				
Component Description:	KALO-110-Primary Transmitter - Other Electrical												
Amount:	\$25,391.40												
Component Description:	Running approximately 140 feet of conduit and wire												
Amount:	\$47,889.38												
<p>Other -- Building Addition Size: 150.0</p>	<table> <tr> <td>Component Description:</td><td>Replace Gyupsum-ceiling, walls, door, flooring and kick plate</td></tr> <tr> <td>Amount:</td><td>\$35,185.92</td></tr> <tr> <td>Component Description:</td><td>"Outdoor meter, meter sockets, weatherhead, grounding and main breaker Includes local tax"</td></tr> <tr> <td>Amount:</td><td>\$35,940.62</td></tr> <tr> <td>Component Description:</td><td>Renovate 2nd floor room in WWII Building</td></tr> <tr> <td>Amount:</td><td>\$19,359.65</td></tr> </table>	Component Description:	Replace Gyupsum-ceiling, walls, door, flooring and kick plate	Amount:	\$35,185.92	Component Description:	"Outdoor meter, meter sockets, weatherhead, grounding and main breaker Includes local tax"	Amount:	\$35,940.62	Component Description:	Renovate 2nd floor room in WWII Building	Amount:	\$19,359.65
Component Description:	Replace Gyupsum-ceiling, walls, door, flooring and kick plate												
Amount:	\$35,185.92												
Component Description:	"Outdoor meter, meter sockets, weatherhead, grounding and main breaker Includes local tax"												
Amount:	\$35,940.62												
Component Description:	Renovate 2nd floor room in WWII Building												
Amount:	\$19,359.65												
<p>Security and Fencing for Main Transmitter</p>	<table> <tr> <td>Component Description:</td><td>KALO-110-Primary Transmitter - Fencing and Security</td></tr> <tr> <td>Amount:</td><td>\$10,181.70</td></tr> </table>	Component Description:	KALO-110-Primary Transmitter - Fencing and Security	Amount:	\$10,181.70								
Component Description:	KALO-110-Primary Transmitter - Fencing and Security												
Amount:	\$10,181.70												

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 - 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
UHF " Broadband Panel, Side Mount Auxiliary /Interim, 74 horizontally polarized	<i>\$0.00</i>	\$0.00	PHANTOM ANTENNA, PLEASE IGNORE /DELETE	\$0.00	N/A
Primary Antenna JUHD 10/2 (20 panel) Narrow Cardioid	\$201,350.00	\$267,500.00		\$500.00	

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	\$0.00	N/A
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	\$0.00	N/A
UHF - High Power, Side Mount, broadband panel, 12 bay,, 50 kW input, directional,, horizontally polarized	\$94,000.00	\$94,000.00	Sharing Cost with KKAI- Estimated cost is 1/2 of the Pre Determined Catalog of Costs for the Antenna.	\$500.00	N/A
Sub-total	\$290,750.00	\$277,774.00	N/A	\$10,774.00	N/A
Total for all systems	\$1,774,181.71	\$2,195,019.69	N/A	\$1,263,525.82	N/A

Components

Actual Information
Description

File Name

<p>UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized</p>	<table> <tr> <td data-bbox="727 103 1145 324"> <p>Component Description:</p> </td><td data-bbox="1147 103 1430 324"> <p>KALO-280-Interim Antenna - Kathrein K723147</p> </td></tr> <tr> <td data-bbox="727 327 1145 459"> <p>Amount:</p> </td><td data-bbox="1147 327 1430 459"> <p>\$8,500.00</p> </td></tr> <tr> <td data-bbox="727 461 1145 750"> <p>Component Description:</p> </td><td data-bbox="1147 461 1430 750"> <p>Shipping Antenna for Interim Site - delivery to dock and then transport to mountain site</p> </td></tr> <tr> <td data-bbox="727 752 1145 846"> <p>Amount:</p> </td><td data-bbox="1147 752 1430 846"> <p>\$1,774.00</p> </td></tr> </table>	<p>Component Description:</p>	<p>KALO-280-Interim Antenna - Kathrein K723147</p>	<p>Amount:</p>	<p>\$8,500.00</p>	<p>Component Description:</p>	<p>Shipping Antenna for Interim Site - delivery to dock and then transport to mountain site</p>	<p>Amount:</p>	<p>\$1,774.00</p>
<p>Component Description:</p>	<p>KALO-280-Interim Antenna - Kathrein K723147</p>								
<p>Amount:</p>	<p>\$8,500.00</p>								
<p>Component Description:</p>	<p>Shipping Antenna for Interim Site - delivery to dock and then transport to mountain site</p>								
<p>Amount:</p>	<p>\$1,774.00</p>								
<p>UHF “ Broadband Panel, Side Mount Auxiliary/Interim, 74 horizontally polarized</p>	<p>Information not provided.</p>								
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<p>Information not provided.</p>								
<p>New combiner, cost per channel (without antenna)</p>	<p>Information not provided.</p>								
<p>UHF - High Power, Side Mount, broadband panel, 12 bay,, 50 kW input, directional,, horizontally polarized</p>	<table> <tr> <td data-bbox="727 1308 1145 1462"> <p>Component Description:</p> </td><td data-bbox="1147 1308 1430 1462"> <p>KALO-210-New Primary Antenna</p> </td></tr> <tr> <td data-bbox="727 1464 1145 1556"> <p>Amount:</p> </td><td data-bbox="1147 1464 1430 1556"> <p>\$500.00</p> </td></tr> </table>	<p>Component Description:</p>	<p>KALO-210-New Primary Antenna</p>	<p>Amount:</p>	<p>\$500.00</p>				
<p>Component Description:</p>	<p>KALO-210-New Primary Antenna</p>								
<p>Amount:</p>	<p>\$500.00</p>								

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	\$25,020.39	\$53,468.39		\$17,468.31	
Interior Transmission Line	\$17,468.39	\$17,468.39	see Justifying Quote KALO OPM-Services 399-TxLine-PermSite-equip	\$17,468.31	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.	\$0.00	N/A
Sub-total	\$28,620.39	\$58,468.39	N/A	\$22,468.31	N/A
Total for all systems	\$1,774,181.71	\$2,195,019.69	N/A	\$1,263,525.82	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 7/8"	<p>Component Description: KALO-380-Interim Transmission Line - 7/8" Flexible Air</p> <p>Amount: \$5,000.00</p>
Interior Transmission Line	<p>Component Description: 1-5/8" Anchor insulator connector</p> <p>Amount: \$17,468.31</p>
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		\$6,471.20	
Interim Tower Rigging	<i>\$16,000.00</i>	\$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	\$0.00	N/A
New tower	<i>\$0.00</i>	\$0.00	KALO-TV will not be constructing a new interim tower. This category is a limitation of LMS. PLEASE IGNORE.	\$0.00	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	\$6,471.20	N/A
Primary Tower	\$324,200.00	\$321,900.00		\$7,486.70	
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.	\$0.00	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.	\$0.00	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.	\$0.00	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.	\$7,486.70	N/A
Sub-total	\$424,400.00	\$352,900.00	N/A	\$13,957.90	N/A
Total for all systems	\$1,774,181.71	\$2,195,019.69	N/A	\$1,263,525.82	N/A

Components

Actual Information	
Description	File Name
Interim Tower Rigging	Information not provided.
New tower	Information not provided.

Short Tower (less than 500')	Component Description: Amount:	Rent-Tower Space \$1,617.80
	Component Description: Amount:	Rent-Tower Space \$1,617.80
	Component Description: Amount:	Rent-Tower Space \$1,617.80
	Component Description: Amount:	Rent-Tower Space \$1,617.80
Pole Installation Expenses	Information not provided.	
Tower Helicopter Lift	Information not provided.	
New tower	Information not provided.	
Short Tower (less than 500')	Component Description:	Completion of the installation of the 4 bay TV panel
	Amount:	\$7,486.70

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	\$435,521.30	\$882,785.16		\$677,354.02	
PJ Video Engineering Consulting	<i>\$68,750.00</i>	\$68,750.00	Per PJ Video Engineering Contract (\$2,500 per month for 24 months); See KALO-510-Outside Project Management of the Transition - PJ Video Engineering Consulting Estimated Cost Justification v.0	\$2,500.00	
RF Upgrade Engineering and FCC Filing	<i>\$4,250.00</i>	\$4,250.00	Please see attached quote from OPM Services LLC regarding interim transmission site costs.	\$0.00	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.	\$0.00	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,200.00	N/A	\$1,305.00	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$15,840.00	KALO-550- Attorney Fees Lease and Other Matters Budget Increase Justification Cover Letter V.3	\$15,840.00	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.	\$1,980.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$0.00	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.	\$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$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	\$8,400.00	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.	\$0.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$4,050.00	Estimated Cost Justification KALO-550-Reimbursement form v0	\$4,050.00	N/A
Project management of the transition	\$150,100.00	\$628,093.86	see Estimated Cost Justification KALO-510-Outside Project Management of the Transition v1	\$605,177.72	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.	\$26,850.00	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	\$0.00	N/A
Sub-total	\$435,521.30	\$882,785.16	N/A	\$677,354.02	N/A
Total for all systems	\$1,774,181.71	\$2,195,019.69	N/A	\$1,263,525.82	N/A

Components

Actual Information	
Description	File Name
PJ Video Engineering Consulting	<p>Component Description: Consulting</p> <p>Amount: \$2,500.00</p> <p>Component Description: Consulting</p> <p>Amount: \$2,500.00</p>

Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consultation for the spectrum repack of KALO-TV in Hawaii
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

Component Description:	Consulting
Amount:	\$2,500.00

	Component Description:		Consultation for the upgrade and spectrum repack of KALO
	Amount:		\$2,500.00
	Component Description:		Consulting
	Amount:		\$2,500.00
	Component Description:		Consulting
	Amount:		\$2,500.00
	Component Description:		Consultation for the spectrum repack of KALO-TV in Hawaii
	Amount:		\$1,250.00
	Component Description:		Consulting
	Amount:		\$2,500.00
	Component Description:		Consulting
	Amount:		\$2,500.00
RF Upgrade Engineering and FCC Filing	Information not provided.		
Comprehensive coverage verification via field study, if needed	Information not provided.		
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description:		KALO-550-Attorney Fees STA
	Amount:		\$990.00
	Component Description:		KALO-550-Attorney Fees STA
	Amount:		\$315.00

Attorney Fees -
Negotiation of lease and
other matters for shared
locations

Component Description:	Legal services
Amount:	\$495.00
Component Description:	Legal services
Amount:	\$585.00
Component Description:	Legal services
Amount:	\$1,125.00
Component Description:	Legal Services
Amount:	\$270.00
Component Description:	Legal services
Amount:	\$2,655.00
Component Description:	Legal services
Amount:	\$1,215.00
Component Description:	Professional Services Rendered Re: KALO TV
Amount:	\$585.00
Component Description:	Legal services
Amount:	\$5,265.00
Component Description:	Legal services
Amount:	\$45.00
Component Description:	Legal services
Amount:	\$1,530.00
Component Description:	Legal services
Amount:	\$1,080.00

	<div> <div> Component Description: Amount: </div> <div> Legal services \$720.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Legal services \$270.00 </div> </div>
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	<div> <div> Component Description: Amount: </div> <div> KALO-550-Attorney fees 2100 CP application \$450.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> KALO-550-Attorney fees 2100 CP application \$1,530.00 </div> </div>
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="689 87 1098 309"> Component Description: Amount: </td><td data-bbox="1098 87 1428 309"> KALO-530-RF Eng new channel study \$1,875.00 </td></tr> <tr> <td data-bbox="689 309 1098 566"> Component Description: Amount: </td><td data-bbox="1098 309 1428 566"> KALO-530-RF Eng new channel study \$6,525.00 </td></tr> </table>	Component Description: Amount:	KALO-530-RF Eng new channel study \$1,875.00	Component Description: Amount:	KALO-530-RF Eng new channel study \$6,525.00
Component Description: Amount:	KALO-530-RF Eng new channel study \$1,875.00				
Component Description: Amount:	KALO-530-RF Eng new channel study \$6,525.00				
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.				

<p>Prepare and or review reimbursement form</p>	<table> <tr> <td data-bbox="687 87 1086 380"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 87 1428 380"> <p>KALO-550-Reimbursement form</p> <p>\$450.00</p> </td></tr> <tr> <td data-bbox="687 380 1086 672"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 380 1428 672"> <p>KALO-550-Reimbursement form</p> <p>\$135.00</p> </td></tr> <tr> <td data-bbox="687 672 1086 963"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 672 1428 963"> <p>KALO-550-Reimbursement form</p> <p>\$135.00</p> </td></tr> <tr> <td data-bbox="687 963 1086 1254"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 963 1428 1254"> <p>KALO-550-Reimbursement form</p> <p>\$1,125.00</p> </td></tr> <tr> <td data-bbox="687 1254 1086 1545"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 1254 1428 1545"> <p>KALO-550-Reimbursement form</p> <p>\$1,755.00</p> </td></tr> <tr> <td data-bbox="687 1545 1086 1680"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1086 1545 1428 1680"> <p>KALO-550-Reimbursement form</p> <p>\$450.00</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$450.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$135.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$135.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$1,125.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$1,755.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$450.00</p>
<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$450.00</p>												
<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$135.00</p>												
<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$135.00</p>												
<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$1,125.00</p>												
<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$1,755.00</p>												
<p>Component Description:</p> <p>Amount:</p>	<p>KALO-550-Reimbursement form</p> <p>\$450.00</p>												
<p>Project management of the transition</p>													

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:	Project Manage FCC Repacking - local coordination, RF Tx and current and new site coordination and legal coordination
Amount:	\$13,500.00

Component Description:	Review, discussion research move to Racine PJ, Tom, Gary, Anne, Gary, Kevin
Amount:	\$6,600.00

Component Description:	Project Manage FCC Repacking - local coordination, RF Tx and microwave frequencies (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:	Repack Project meetings
Amount:	\$4,800.00

Component Description:	Working with KKAI on tower purchase and install planning
Amount:	\$6,450.00

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:	Engineering design, oversight and project management
Amount:	\$450.00

Component Description:	Repack Project meetings
Amount:	\$4,687.50

Component Description:	Repacking Monthly hours for soliciting, reviewing and consolidating 399 quotes AND 3rd party invoices
Amount:	\$6,262.50

Component Description:	RentalCar
Amount:	\$23,400.00

Component Description:	Project Management
Amount:	\$18,027.90

Component Description:	3rd party transportation of transmitter from Hawaii dock to transmitter site- fixed price
Amount:	\$16,762.50

Component Description:	Working with KKAI on tower purchase and install planning
Amount:	\$6,262.50

Component Description:	Working with KKAI on tower purchase and install planning
Amount:	\$8,362.50

Component Description:	Repack Project meetings
Amount:	\$3,825.00

Component Description:	Repacking Monthly hours for soliciting, reviewing and consolidating 399 quotes AND 3rd party invoices
Amount:	\$3,900.00

Component Description:	Working with KKAI on tower purchase, 3 possible alternative tower and install planning
Amount:	\$9,637.50

Component Description:	Working with KKAI on tower purchase, 3 possible alternative tower and install planning
Amount:	\$12,412.50

Component Description:	Project Management
Amount:	\$8,375.45

Component Description:	Repack Project meetings
Amount:	\$14,812.50

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
Amount:	\$15,702.55

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:	Repack Project meetings
Amount:	\$7,500.00

Component Description:	Project manage. Oversight, Quality control
Amount:	\$2,700.00

Component Description:	Working with KKAI on tower purchase and install planning
Amount:	\$8,325.00

Component Description:	Repack Project meetings
Amount:	\$6,975.00

Component Description:	Engineering design, oversight and project management
Amount:	\$4,500.00

Component Description:	Repack Project meetings
Amount:	\$6,975.00

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:	\$5,212.50

Component Description:	Project Management
Amount:	\$9,941.40

Component Description:	Project Management
Amount:	\$3,959.80

Component Description:	Repack Project meetings
Amount:	\$5,062.50

Component Description:	Repack Project meetings
Amount:	\$3,975.00

Component Description:	Working with KKAI on tower
Amount:	\$8,287.50

Component Description:	Working with KKAI on tower
Amount:	\$10,012.50

Component Description:	Repack Project meetings
Amount:	\$5,400.00

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Preparation of Interim site for HVAC and electrical
Amount:	\$17,587.50

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	KALO-510-Outside Project Management of the Transition - includes Widelity and OPM
Amount:	\$750.00

Component Description:	Project Management
Amount:	\$3,830.70

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice
Amount:	N/A

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice
Amount:	N/A

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	KALO-510-Outside Project Management of the Transition - includes Widelity and OPM
Amount:	\$450.00

Component Description:	Repack Project meetings
Amount:	\$17,894.37

Component Description:	Project management
Amount:	\$2,404.85

Component Description:	Please deny this invoice
Amount:	N/A

Component Description:	Write KALO RF Upgrade report
Amount:	\$10,612.50

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice
Amount:	N/A

Component Description:	Project Management
Amount:	\$9,998.60

Component Description:	Working with KKAI on tower purchase and install planning
Amount:	\$19,837.50

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice
Amount:	N/A

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Project Management
Amount:	\$14,971.45

Component Description:	Project Management
Amount:	\$4,031.75

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Project Manage. Oversight, Quality control
Amount:	\$2,700.00

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Prepare Tx site Rack Elevations, update BOM, dataflow dwg
Amount:	\$26,062.50

Component Description:	Project Management
Amount:	\$6,955.70

Component Description:	Project Management
Amount:	\$3,696.80

Component Description:	Project Management
Amount:	\$1,024.00

Component Description:	Please deny this invoice.
Amount:	N/A

Component Description:	Please deny this invoice
Amount:	N/A

Component Description:	Project Management
Amount:	\$8,619.35

Component Description:	Project Management
Amount:	\$3,657.35

Component Description:	Project Management
Amount:	\$3,717.90

	Component Description:	Please deny this invoice.
	Amount:	N/A
	Component Description:	Repacking Monthly hours for soliciting, reviewing and consolidating
	Amount:	\$7,312.50
	Component Description:	Project Management
	Amount:	\$5,795.30
File for STL PCN and STL FCC License	Component Description:	Please deny this invoice.
	Amount:	N/A
	Component Description:	Please deny this invoice.
	Amount:	N/A
	Component Description:	Please deny this invoice.
	Amount:	N/A
	Component Description:	Legal services
	Amount:	\$732.46
	Component Description:	Legal Services
	Amount:	\$10,518.84

Additional Field Engineering Service, 36 Days	<div> <div> Component Description: Amount: </div> <div> KALO-530-RF - Additional Engineering Days \$17,325.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> KALO-530-RF - Additional Engineering Days \$9,525.00 </div> </div>
RF Exposure Measurements	Information not provided.

**Cost
Information**

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$151,501.00	\$143,777.60		\$93,927.06	
Accounting	<i>\$6,706.00</i>	\$6,706.00	Please see attached justification document for accounting category	\$6,706.00	N/A
TRAVEL - GSA - Per Person Per Trip	<i>\$48,705.00</i>	\$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	\$48,533.77	N/A
STL transmitter and receiver, SAF or equiv. 7 GHz	<i>\$35,000.00</i>	\$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	\$30,791.80	N/A

Legal Work	\$27,000.00	\$27,000.00	Generation of Shared Use Agreement, lease documents, review of revised Form 399.	\$3,118.89	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	\$0.00	N/A
Equipment Storage	\$1,800.00	\$1,800.00	N/A	\$0.00	N/A
MVPD Notification of Channel Change	\$300.00	\$300.00	2 hours labor.	\$0.00	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.	\$540.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	FCC Filing Fee as of September 2018	\$0.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	\$0.00	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

FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$200.00	FCC filing fee effective September 2018	\$0.00	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
Equipment Delivery and Handling Charges	\$4,800.00	\$4,800.00	Delivery to storage and to very remote Hawaiian location.	\$0.00	N/A
Sub-total	\$151,501.00	\$143,777.60	N/A	\$93,927.06	N/A
Total for all systems	\$1,774,181.71	\$2,195,019.69	N/A	\$1,263,525.82	N/A

Components

Actual Information Description	File Name
Accounting	<p>Component Description: August monthly accounting</p> <p>Amount: \$775.00</p> <p>Component Description: Paying bills in the month of May</p> <p>Amount: \$438.50</p> <p>Component Description: Services provided in June - paying bills</p> <p>Amount: \$429.50</p>

Component Description:	September monthly accounting
Amount:	\$1,257.50

Component Description:	Paying Repack bills
Amount:	\$135.50

Component Description:	Services performed in March: Paying monthly bills
Amount:	\$1,048.00

Component Description:	Services performed in February; Paying Repack vendor bills
Amount:	\$1,439.00

Component Description:	November monthly accounting
Amount:	\$499.00

Component Description:	January monthly accounting; answer emails
Amount:	\$545.00

Component Description:	December monthly accounting
Amount:	\$139.00

TRAVEL - GSA - Per Person Per Trip	<div> Component Description: Paul labor travel Roundtrip Hawaii - San Diego </div> <div> Amount: \$6,195.25 </div>
	<div> Component Description: Travel Day- Gary Stigal Round Trip </div> <div> Amount: \$13,230.00 </div>
	<div> Component Description: Roundtrip travel San Diego to Hawaii and back </div> <div> Amount: \$3,345.00 </div>
	<div> Component Description: Paul labor travel to Roundtrip Hawaii- San Diego </div> <div> Amount: \$11,340.00 </div>
	<div> Component Description: Gary labor travel to Hawaii </div> <div> Amount: \$4,028.52 </div>
	<div> Component Description: Gary labor travel to Hawaii </div> <div> Amount: \$10,395.00 </div>
STL transmitter and receiver, SAF or equiv. 7 GHz	<div> Component Description: 13Ghz 1-0 Split mount IP only </div> <div> Amount: \$25,233.33 </div>
	<div> Component Description: Configuration and site line review </div> <div> Amount: \$5,558.47 </div>

Legal Work	<p>Component Description: For professional services rendered through August 31, 2019</p> <p>Amount: \$3,118.89</p>
ASI-to-IP converter, Dektec DTE-3120	Information not provided.
Equipment Storage	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	<p>Component Description: KALO-610-Channel Change Announcements</p> <p>Amount: \$540.00</p>
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
DTV Medical Facility Notification	<p>Component Description: DTV Notification Service</p> <p>Amount: \$3,861.60</p>
FCC Filing Fees - Special Temporary Authorization request	Information not provided.

<p>Disposal Costs (for equipment and other waste, net of any salvage value)</p>	<table> <tr> <td data-bbox="707 174 1013 250">Component Description: Amount:</td><td data-bbox="1145 174 1246 250">Disposal \$375.00</td></tr> <tr> <td data-bbox="707 353 1013 470">Component Description: Amount:</td><td data-bbox="1145 353 1323 470">KALO-610- Disposal Costs \$375.00</td></tr> </table>	Component Description: Amount:	Disposal \$375.00	Component Description: Amount:	KALO-610- Disposal Costs \$375.00
Component Description: Amount:	Disposal \$375.00				
Component Description: Amount:	KALO-610- Disposal Costs \$375.00				
<p>Equipment Delivery and Handling Charges</p>	<p>Information not provided.</p>				

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$1,774,181.71	\$2,195,019.69	\$1,263,525.82

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	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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.

	<p>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.</p>	
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Tom Jordan <i>Secretary</i> <i>/Treasurer</i> <i>/Chief</i> <i>Financial Officer</i></p> <p>02/28/2020</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Tom Jordan <i>Secretary</i> <i>/Treasurer</i> <i>/Chief</i> <i>Financial</i> <i>Officer</i></p> <p>02/28/2020</p>

Attachments