



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **83180** | Service: **DTS** | Call **KKAI** | Channel: **25 (UHF)** |  
ID: | Sign:  
File **0000028496**  
Number:  
FRN: **0032881088** | Date **07/12**  
Submitted: **/2017**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>KAILUA TELEVISION, LLC</b>	CHRISTOPHER RACINE	+1 (808)	MANAGER@KKAI.TV	Limited Liability Company
Doing Business As: KAILUA TELEVISION, LLC	PO Box 8969 HONOLULU, HI 96810 United States	593-5524		

## 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
<b>Harry Cole</b> <i>Communications Counsel Fletcher, Heald &amp; Hildreth, LLC</i>	Harry Cole Fletcher, Heald & Hildreth, LLC 1300 N. 17th Street - 11th Floor Arlington, VA 22209 United States	+1 (703) 812-0483	cole@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		KKAI installing new tower, transmitter, antenna, combiner at one DTS site, new transmitter, antenna, combiner at second DTS site. One site to be shared with at least one other station; second site to be shared with five-plus stations. See attached.

**Transmitters**

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

**Auxiliary  
Transmitter****Add Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup transmitter for main transmitter
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TXUP 2500 LD
	Year	2003
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.2 kW

**Auxiliary  
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	SFT 102 U /XE
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.2 kW
	Justification for New Transmitter	Existing auxiliary transmitter is 14 years old and cannot be retuned to comply with current standards.

**Auxiliary  
Transmitter****Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A

	Length	N/A
	Other Electrical Service	No
	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Auxiliary  
Transmitter****Add Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup transmitter for DTS transmitter
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TXUP 2500 LD
	Year	2003
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.2 kW

**Auxiliary  
Transmitter****New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	SFT 102 U /XE
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.2 kW
	Justification for New Transmitter	Existing auxiliary transmitter is 14 years old and cannot be retuned to comply with current standards.

**Auxiliary  
Transmitter****Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.



**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DUAL SCREEN SERVICE SCT 242 UB
	Year	2001
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.5 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	SFT 252 U /XE/A
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	5 kW
	Justification for New Transmitter	Current transmitter is 16 years old, was already converted from analog to digital, and cannot be retuned to new channel, according to manufacturer.

**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	3 inches
	Length	128.0 feet
	Other Electrical Service	Yes
	Description	A new transmitter building is being installed. It will require installation of a new electrical meter and related costs (including running line from the meter to the transmitter building).
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	640.0 square feet
<b>Channel 14 Costs</b>	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
Proof of performance	Main transmitter proof of performance
Logo inserter	To provide station identification
Building installation	A new building will be obtained and installed, requiring concrete foundation, delivery and installation of building and related work
Electrical meter	New site requires new meter from electric company
Related electrical work	Electrical work and related materials (cables, outlets, etc.) to bring power to building and transmitters from meter

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	2
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	DUAL SCREEN SERVICE SCT 242 UB
	Year	2001
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.5 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	SFT 252 U /XE/A
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.5 kW
	Justification for New Transmitter	Current transmitter is 16 years old, was already converted from analog to digital, and cannot be retuned to new channel, according to manufacturer.

**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	3 inches
	Length	120.0 feet
	Other Electrical Service	Yes
	Description	World War II-vintage building being repurposed for DTS transmitter building. It will require installation of a new electrical meter and related costs (including running line from the meter to the transmitter building).
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	5 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	620.0 square feet
<b>Channel 14 Costs</b>	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
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**Primary Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
Proof of performance	DTS transmitter proof of performance
Logo inserter	To provide station identification
Transmitter building renovation	A World War II-vintage building will be repurposed for the transmitter building (to include equipment for up to five stations). Work will include repainting, reflooring, lighting, rewiring, refurbishing.
Related electrical work	Electrical work and related materials (cables, outlets, etc.) to bring power to building and transmitters from meter
Electrical meter	New site requires new meter from electric company



**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	15.0 kW

Manufacturer	
Model	AL-8
Year	1998

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?	No
	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	3
	Number of Panels/Bays	6
	Lower Limit	460.00 MHz
	Upper Limit	620.00 MHz
	Design power capacity in use	80.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	3.0 kW
	Manufacturer	

Model	JUHD 6/1(6) VERY NARROW CARDIOID PATTERN
Year	2017
Justification for New Antenna	Current antenna is nearly 20 years old, cannot accommodate new channel, and cannot be retuned. New antenna will be used by two-three Hawaii stations.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	Upper and lower frequency
	Frequency	460.0 MHz - 620.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A

<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

## 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	2
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Top
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	15.0 kW

Manufacturer	
Model	12-bay slot antenna
Year	1998

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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?	No
	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	5
	Number of Panels/Bays	12
	Lower Limit	460.00 MHz
	Upper Limit	620.00 MHz
	Design power capacity in use	80.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	25.0 kW
	Manufacturer	

Model	JUHD 12/2 (24) NARROW CARDIOID PATTERN 20 Kw INPUT
Year	2017
Justification for New Antenna	Current antenna is nearly 20 years old, cannot accommodate new channel, and cannot be retuned. New antenna will be used by two-three Hawaii stations.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	5
	Frequencies of channels supported	Upper and lower frequency
	Frequency	460.0 MHz - 620.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A

	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	No

**Primary  
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
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	1
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Flexible Air
	Diameter	1 5/8 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	132 feet per run

Primary  
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	132 feet per run
	Justification for New Transmission Line	Existing line is 12-14 years old, deteriorated from exposure to harsh weather, and unable to be moved to new pole and re-bent to new positions. New line will be used to accommodate two-three Hawaii "re-pack" stations.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
Information not provided.	

**Primary**  
**Transmission Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	2
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Flexible Air
	Diameter	1 5/8 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	0
	Length	238 feet per run



Primary  
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	228 feet per run
	Justification for New Transmission Line	Existing line is 12-14 years old, deteriorated from exposure to harsh weather, and unable to be moved to new pole and re-bent to new positions. New line will be used to accommodate four-five Hawaii "re-pack" stations.

Primary Transmission Line	Other Transmission Line Expenses Not Listed
Information not provided.	

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	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?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1246610
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	21° 25' 19.6" N-
	Longitude (NAD83)	157° 45' 27.1" W-
	Overall Structure Height	116.14 feet
	Support Structure Height	116.14 feet
	Ground Elevation Above Mean Sea Level (AMSL)	464.89 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	General Telcourier, Inc.
	Date Constructed	01/01/1990

**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
89714	KUPU	DTV

## Primary Tower

### Tower Modification Costs

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

## Primary Tower

### Tower Rigging Costs

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

Primary Tower	Other Tower Expenses Not Listed
	Information not provided.

**Primary  
Tower**

**Existing Tower**

Section	Question	Response
<b>Existing Tower Description</b>	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?	No
	Is tower compliant with Rev G?	Unknown
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	No
	ASR Number	
<b>Coordinates (NAD83 ( North American Datum of 1983))</b>	Latitude (NAD83)	21° 24' 10.1" N-
	Longitude (NAD83)	158° 05' 52.2" W-
	Overall Structure Height	100.00 feet
	Support Structure Height	100.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	2765.00 feet
	Structure Type	POLE - Any type of Pole
	Tower Owner	Palehua Ranch, LLC
	Date Constructed	07/09/2017

**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
89714	KUPU	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. Other factors support replacement of existing pole with a new pole. See attachment.

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
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<b>Tower installation expenses</b>	Site preparation (clearing, concrete, hole drilling), rigging and related items
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**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	80
	Explanation	Proposal involves construction, remodeling, installation at two sites, requiring management of multiple subcontractors. The work is beyond the scope of licensee's existing personnel.
<b>Outside RF consulting Engineering Services</b>	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	No
	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	No
	Critical Facility	N/A

	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	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	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	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	No
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other legal work - local	Local counsel to assist with leases, utility companies, cable companies, other stations
Other engineering work - local	Local engineering to assist with design and preparation of two separate sites and installation of equipment at both sites.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	No
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	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	No
<b>Other Miscellaneous Expenses</b>	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
Fiber Optic drop	Deliver all repack stations to cable operator (Hawaiian Telcom) by fiber

## 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
<b>Primary Transmitter SFT 252 U/XE/A</b>	<b>\$287,541.00</b>	<b>\$134,714.00</b>		<b>\$0.00</b>	
Proof of performance	<i>\$2,800.00</i>	\$2,800.00	N/A	N/A	N/A
Logo inserter	<i>\$1,460.00</i>	\$1,460.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$6,656.00	\$3,400.00	N/A	N/A	N/A
5 Ton system	\$20,250.00	\$4,200.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	\$236,500.00	\$102,979.00	N/A	N/A	N/A
Other Electrical Service: A new transmitter building is being installed. It will require installation of a new electrical meter and related costs (including running line from the meter to the transmitter building).	<i>\$9,100.00</i>	\$9,100.00	N/A	N/A	N/A
Other -- Building Addition Size: 640.0	<i>\$4,200.00</i>	\$4,200.00	N/A	N/A	N/A

Building installation	<b>\$2,025.00</b>	\$2,025.00	N/A	N/A	N/A
Electrical meter	<b>\$4,550.00</b>	\$4,550.00	N/A	N/A	N/A
Related electrical work	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
<b>Primary Transmitter SFT 252 U/XE/A</b>	<b>\$196,300.00</b>	<b>\$152,789.00</b>		<b>\$0.00</b>	
Proof of performance	<b>\$2,800.00</b>	\$2,800.00	N/A	N/A	N/A
Other -- Building Addition Size: 620.0	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
Logo inserter	<b>\$1,460.00</b>	\$1,460.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$102,979.00	N/A	N/A	N/A
5 Ton system	\$20,250.00	\$4,200.00	N/A	N/A	N/A
Transmitter building renovation	<b>\$16,800.00</b>	\$16,800.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$6,240.00	\$1,800.00	N/A	N/A	N/A
Related electrical work	<b>\$9,100.00</b>	\$9,100.00	N/A	N/A	N/A
Electrical meter	<b>\$4,550.00</b>	\$4,550.00	N/A	N/A	N/A



Other Electrical Service: World War II-vintage building being repurposed for DTS transmitter building. It will require installation of a new electrical meter and related costs (including running line from the meter to the transmitter building).	<b>\$9,100.00</b>	\$9,100.00	N/A	N/A	N/A
<b>Auxiliary Transmitter SFT 102 U/XE</b>	<b>\$146,250.00</b>	<b>\$120,000.00</b>		<b>\$0.00</b>	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$120,000.00	N/A	N/A	N/A
5 Ton system	\$20,250.00	\$0.00	N/A	N/A	N/A
<b>Auxiliary Transmitter SFT 102 U/XE</b>	<b>\$146,250.00</b>	<b>\$120,000.00</b>		<b>\$0.00</b>	
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$120,000.00	N/A	N/A	N/A
5 Ton system	\$20,250.00	\$0.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$776,341.00</b>	<b>\$527,503.00</b>	<b>N/A</b>	<b>\$0.00</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$1,937,931.00</b>	<b>\$1,390,843.00</b>	<b>N/A</b>	<b>\$0.00</b>	<b>N/A</b>

## Components

Information not provided.

## 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
<b>Primary Antenna JUHD 6 /1(6) VERY NARROW CARDIOID PATTERN</b>	<b>\$227,740.00</b>	<b>\$174,200.00</b>		<b>\$0.00</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$54,400.00	N/A	N/A	N/A
Pattern scatter analysis for side mount high /med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
UHF - High Power, Side Mount, broadband panel, 6 bay,, 3 kW input, horizontally polarized	<i>\$108,400.00</i>	\$108,400.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

<b>Primary Antenna JUHD 12/2(24) NARROW CARDIOID PATTERN 20 Kw INPUT</b>	<b>\$155,550.00</b>	<b>\$160,575.00</b>		<b>\$0.00</b>	
UHF - High Power, Side Mount, broadband panel, 12 bay,, 25 kW input, horizontally polarized	<b>\$48,200.00</b>	\$48,200.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	N/A	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$112,375.00	Combiner is designed for use by up to five stations in the Hawaii repack. KKAI licensee is acquiring the combiner itself for joint use by participating stations.	N/A	N/A
<b>Sub-total</b>	<b>\$383,290.00</b>	<b>\$334,775.00</b>	N/A	\$0.00	N/A
<b>Total for all systems</b>	<b>\$1,937,931.00</b>	<b>\$1,390,843.00</b>	N/A	\$0.00	N/A

## Components

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
<b>Primary Transmission Line</b>	<b>\$7,788.00</b>	<b>\$12,280.00</b>		<b>\$0.00</b>	
Flexible Air Transmission Line - dielectric, 3"	\$7,788.00	\$12,280.00	Two separate lengths of transmission line is required: a length of 3" line from the transmitter to the combiner, and another length of 4" line from the combiner to the antenna.	N/A	N/A
<b>Primary Transmission Line</b>	<b>\$13,452.00</b>	<b>\$25,080.00</b>		<b>\$0.00</b>	
Flexible Air Transmission Line - dielectric, 3"	\$13,452.00	\$25,080.00	Two separate lengths of transmission line is required: a length of 3" line from the transmitter to the combiner, and another length of 4" line from the combiner to the antenna.	N/A	N/A

<b>Sub-total</b>	\$21,240.00	\$37,360.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$1,937,931.00	\$1,390,843.00	N/A	\$0.00	N/A

## Components

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
<b>Primary Tower TOWER</b>	<b>\$268,500.00</b>	<b>\$41,800.00</b>		<b>\$0.00</b>	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$25,000.00	N/A	N/A	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$16,800.00	N/A	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$0.00	N/A	N/A	N/A
<b>Primary Tower POLE</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$0.00</b>	
<b>Primary Tower</b>	<b>\$154,450.00</b>	<b>\$70,250.00</b>		<b>\$0.00</b>	
Tower installation expenses	<i>\$35,750.00</i>	\$35,750.00	N/A	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$0.00	N/A	N/A	N/A

Tower Helicopter Lift	<b>\$21,000.00</b>	\$21,000.00	Helicopter necessary to deliver new pole to site. Estimated three-hour project at \$7,000 /hour.	N/A	N/A
New tower	<b>\$13,500.00</b>	\$13,500.00	N/A	N/A	N/A
<b>Sub-total</b>	\$422,950.00	\$112,050.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$1,937,931.00	\$1,390,843.00	N/A	\$0.00	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
<b>Outside Professional Services</b>	<b>\$234,215.00</b>	<b>\$288,660.00</b>		<b>\$0.00</b>	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$4,500.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$7,500.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$14,000.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$6,000.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A



Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$3,000.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$10,000.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$20,000.00	Two separate transmission systems are planned to be shared at two different sites with a total of five other repack stations, entailing negotiations and drafting with five other parties. Also, major channel change proposal will be submitted for KKAI.	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$4,000.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A

RF Exposure Measurements	\$21,050.00	\$20,000.00	Station is a DTS facility, which entails two separate transmission systems.	N/A	N/A
Other engineering work - local	<b>\$68,900.00</b>	\$68,900.00	N/A	N/A	N/A
Other legal work - local	<b>\$18,760.00</b>	\$18,760.00	N/A	N/A	N/A
Project management of the transition	\$12,640.00	\$32,000.00	Project includes two separate transmitter sites (main and DTS), with installation of new tower /pole at one site, new building at the other, and substantial refurbishment of existing building for transmitter housing.	N/A	N/A
<b>Sub-total</b>	\$234,215.00	\$288,660.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$1,937,931.00	\$1,390,843.00	N/A	\$0.00	N/A

## Components

Information not provided.

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$99,895.00</b>	<b>\$90,495.00</b>		<b>\$0.00</b>	
Develop and air announcement of upcoming channel change	<i>\$2,000.00</i>	\$2,000.00	Estimated cost of production /broadcast of channel change announcements	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$11,000.00</i>	\$11,000.00	Estimated cost of delivery of transmitters, antennas to Hawaii	N/A	N/A
Fiber Optic drop	<i>\$68,000.00</i>	\$68,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$2,500.00</i>	\$2,500.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$1,400.00</i>	\$1,400.00	Old transmitters, antennas cannot be used, must be scrapped.	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	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,200.00	N/A	N/A	N/A
<b>Sub-total</b>	\$99,895.00	\$90,495.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$1,937,931.00	\$1,390,843.00	N/A	\$0.00	N/A

### Components

Information not provided.

Cost Information	Grand Total		
	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$1,937,931.00	\$1,390,843.00	\$0.00

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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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><b>Christopher Racine</b>  <i>President</i></p> <p>07/12/2017</p>

## Attachments