



(REFERENCE COPY - Not for submission)

DTS Engineering STA Application

File Number: 0000206881 | Submit Date: 12/18/2023 | Call Sign: KKAI | Facility ID: 83180 | FRN: 0032881088 | State: Hawaii | City: KAILUA

Service: DTS | Purpose: Engineering STA | Status: Granted | Status Date: 01/18/2023 | Expiration Date: 07/17/2023 |

Filing Status: Active

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Application Type	Fee Code	Fee Amount
Engineering STA	MPV	\$270.00
Total		\$270.00

**Applicant  
Information**

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

Applicant	Address	Phone	Email	Applicant Type
Kailua Television, LLC	P.O. Box 8969 Honolulu, HI 96810 United States	+1 (808) 591-1683	chris@tonga.com	Limited Liability Company

**Authorization Holder Name**

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact  
Representatives  
(1)

Contact Name	Address	Phone	Email	Contact Type
Ari Meltzer , Esq . Wiley Rein LLP	2050 M Street, N.W. Washington, DC 20036 United States	+1 (202) 719-7467	ameltzer@wiley.law	Legal Representative

Channel and  
Facility  
Information

Section	Question	Response
Proposed Community of License	Facility ID	83180
	State	Hawaii
	City	KAILUA
	DTS Channel	29
	Designated Market Area	Honolulu
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	2

DTS Reference Point

Section	Question	Response
Construction Permit File Number and Facility ID	File Number for Current Authorized Service Area:	
	Facility ID	
Coordinates (NAD83)	Latitude	- -
	Longitude	- -

Site 1: Antenna  
Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1246610
Coordinates (NAD83)	Latitude	21° 25' 19.6" N+
	Longitude	157° 45' 27.1" W-
	Structure Type	LTOWER-Lattice Tower
	Overall Structure Height	35.4 meters
	Support Structure Height	35.4 meters
	Ground Elevation (AMSL)	141.7 meters
Antenna Data	Height of Radiation Center Above Ground Level	25.9 meters
	Height of Radiation Center Above Average Terrain	373 meters
	Height of Radiation Center Above Mean Sea Level	167.6 meters
	Effective Radiated Power	40.0 kW

Site 1: Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1007391
Antenna Manufacturer and Model	Manufacturer:	Aldena
	Model	US-Peanut
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	
	Rotation	0 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1.00	90	0.093	180	1.00	270	0.093
10	0.966	100	0.108	190	0.966	280	0.108
20	0.881	110	0.257	200	0.881	290	0.257
30	0.708	120	0.288	210	0.708	300	0.288
40	0.495	130	0.313	220	0.495	310	0.313
50	0.343	140	0.495	230	0.343	320	0.495
60	0.288	150	0.708	240	0.288	330	0.708
70	0.216	160	0.871	250	0.216	340	0.871
80	0.093	170	0.955	260	0.093	350	0.955

Additional Azimuths

Degree	V <sub>A</sub>
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Site 2: Antenna  
Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	21° 24' 11.0" N+
	Longitude	158° 05' 52.4" W-
	Structure Type	POLE-Pole used only to mount an antenna
	Overall Structure Height	20.4 meters
	Support Structure Height	20.4 meters
	Ground Elevation (AMSL)	822.3 meters
Antenna Data	Height of Radiation Center Above Ground Level	17.0 meters
	Height of Radiation Center Above Average Terrain	687.5 meters
	Height of Radiation Center Above Mean Sea Level	839.3 meters
	Effective Radiated Power	29.6 kW



Site 2: Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1008174
Antenna Manufacturer and Model	Manufacturer:	Aldena
	Model	6-Bay Very Narrow Cardioid
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	
	Rotation	100 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1.00	90	0.01	180	0.01	270	0.01
10	0.96	100	0.03	190	0.01	280	0.07
20	0.87	110	0.04	200	0.01	290	0.15
30	0.73	120	0.03	210	0.01	300	0.25
40	0.56	130	0.02	220	0.01	310	0.39
50	0.39	140	0.01	230	0.02	320	0.56
60	0.25	150	0.01	240	0.03	330	0.73
70	0.15	160	0.01	250	0.04	340	0.87
80	0.07	170	0.01	260	0.03	350	0.96

Additional Azimuths

Degree	V <sub>A</sub>
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## Certification

Section	Question	Response
<b>General Certification Statements</b>	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
<b>Authorized Party to Sign</b>	<b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b> Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	<b>Christopher Racine</b> <i>General Manager</i>  01/13/2023

Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">KKAI(TV), Kailua, HI. engineering STA request exhibit.pdf</a>	Applicant	General Information	STA Request