

Application Purpose

This minor modification to a licensed facility proposes a correction in the KMKV transmitter geographic coordinates. No physical changes are proposed. Since the licensed and corrected geographic coordinates differ by more than 3 seconds latitude/longitude, a construction permit request is required. The corrected coordinates meet the full spacing requirements as specified in C.F.R 47 73.207 as shown in Exhibit 1-A.

The KMKV licensed and proposed changes are indicated below:

| | Licensed | Minor Mod |
|--------------------------|---------------------------|---------------------------|
| Channel / Class | 264C0 | 264C0 |
| ASRN | NA | NA |
| Geographical Coordinates | 20 42 34.0 156 15 49.0 | 20 42 22.1 156 15 39.1 |
| Tower AGL | 30m | 30m |
| Site AMSL | 2969m | 2969m |
| COR AGL | 26m | 26m |
| COR AMSL | 2995m | 2995m |
| HAAT | 1798m | 1798m |
| ERP | 3.5 kW (H&V, non-DA) | 3.5 kW (H&V, non-DA) |
| Transmit Antenna | Nicom BKG77-3/0.85 | Nicom BKG77-3/0.85 |

FCC NGDC 30 Sec Terrain Data

KMKV Site Spacing

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REFERENCE                                     DISPLAY DATES
20 42 22.10 N.                               CLASS = C0      DATA   03-25-24
156 15 39.10 W.                             Current Spacings to 3rd Adj. SEARCH 04-08-24
----- Channel 264 - 100.7 MHz -----
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| Call | | Channel | Location | | Azi | Dist | FCC | Margin |
|---------|-----|---------|-------------|----|-------|--------|-------|--------|
| KMKV | LIC | 264C0 | Kihei | HI | 322.1 | 0.46 | 269.5 | -269.0 |
| KUKE-LP | LIC | 267L1 | Kula | HI | 308.9 | 8.56 | 83.5 | -74.9 |
| KONA-LP | LIC | 263L1 | Kailua-Kona | HI | 165.7 | 113.48 | 110.5 | 3.0 |
| KKFJ-LP | LIC | 265L1 | Kailua-Kona | HI | 166.2 | 124.99 | 110.5 | 14.5 |
| KONA-LP | CP | 263L1 | Kailua-Kona | HI | 165.5 | 127.03 | 110.5 | 16.5 |

All separation margins include rounding

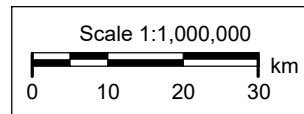
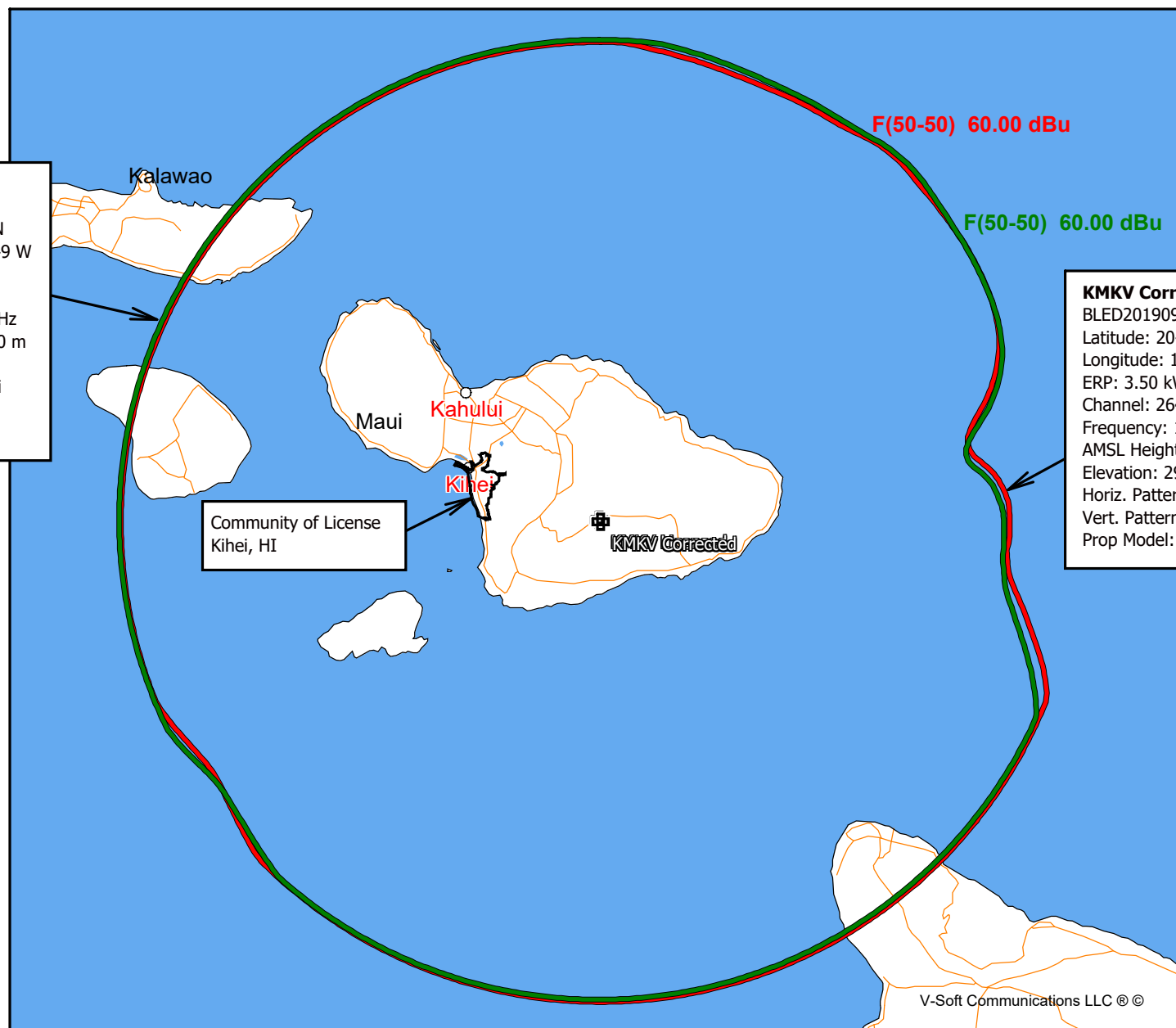
■ KMKV Licensed (264)
■ KMKV Corrected (264)

KMKV Kihei, HI Licensed and Corrected 60dbu Service Contours

KMKV Licensed
BLED20190917AAD
Latitude: 20-42-34 N
Longitude: 156-15-49 W
ERP: 3.50 kW
Channel: 264
Frequency: 100.7 MHz
AMSL Height: 2995.0 m
Elevation: 2969.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Community of License
Kihei, HI

KMKV Corrected
BLED20190917AAD
Latitude: 20-42-22.10 N
Longitude: 156-15-39.10 W
ERP: 3.50 kW
Channel: 264
Frequency: 100.7 MHz
AMSL Height: 2995.0 m
Elevation: 2969.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



Environmental Protection

KMKV utilizes an EPA Type 2, 3 Bay 0.85 wavelength spaced transmit antenna. EMF's theoretical contribution to the transmit site is $16.8\text{uw}/\text{cm}^2$ at a distance of 7m from the base of the tower which is 8.4% of the public (uncontrolled) limit of $200\text{uw}/\text{cm}^2$.

As previously stated in construction permit file number BPED-20170811AAI, Special Operating Procedure Number Two:

Permittee has specified use of the antenna listed below to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines. If any other type or size of antenna is to be used with the facilities authorized herein, THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 WILL NOT APPLY. In this case, a FORMAL REQUEST FOR PROGRAM TEST AUTHORITY must be filed in conjunction with FCC Form 302-FM, application for license, BEFORE program tests will be authorized. The request must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines.

Three Sectioned 0.85 wavelength spaced

EMF affirms the use of the specified antenna system, three sectioned 0.85 wavelength spaced antenna, is still in use.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.