

Engineering Statement
Proposed Minor Change
FM Translator K224CQ
Anahola, Hawaii

The Kekahu Foundation, Inc., the licensee of FM fill-in Translator K224CQ requests authority to make minor changes to the construction permit for K224CQ. Subsequent to the authorization of this translator, the licensee found that the original antenna site was no longer available. A nearby site was found to be available, and the licensee proposes a modification of the construction permit to this new site, and to make changes in the antenna height and power.

Kekahu proposes to operate from the Moloa'a Water tank site, about three miles north of the community of Anahola. The new antenna site is 98 meters above sea level, and has a clear line-of-sight to the community of Anahola. The proposed antenna is a non-directional, two-bay, full-wave spaced model, with a center of radiation of 9 meters above ground, and 107 meters above sea level. The proposed maximum effective radiated power is 250 watts, circularly polarized.

Utilizing the FM Model program, the maximum RF density would be 44.55 microwatts per squared centimeter at 4.8 meters from the base of the pole. Because this is much less than the public limit (200 microwatts per squared centimeter), the applicant is confident that this proposal is substantially in compliance with FCC rules regarding RFR exposure.

This minor change will allow this vital fill-in translator to be built and serve the intended audience with a good signal, and solve the on-going reception problems for the isolated area of the Island of Kaua'i.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Donald E. Mussell', with a stylized, cursive script.

Donald E. Mussell
Consulting Engineer
July 2, 2004