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Engineering Statement Minor Change to K272CT Kahului, Maui, Hawaii

The licensee requests to modify K272CT to avoid interference to the soon-to-be authorized co-channel facilities of AP272 Kaunakakai, Hawaii (BNPH20050103ACB). The applicant requests modification to a third-adjacent Channel (269D, 101.7 Mhz). K272CT is a fill-in translator for KLHI Lahaina, Hawaii, and the entire proposed 60 dbu contour is encompassed by the KLHI-FM 60 dbu contour.

The applicant proposes to utilize a site on an unpopulated hilltop on the Island of Lanai, using an existing 18 meter tower. The proposed location is an established electronic site.

A directional antenna, along with a power increase to 250 watts ERP is proposed. This location, antenna and power level combination is clear of any prohibited overlap to any existing or proposed stations, with the exception of the soon-to-be authorized third adjacent allocation to Kaunakakai (BNPH20050103ACB). However, the proposed translator's 100 dbu contour does not overlap any populated area. The maximum distance to the extent of the overlap contour is just over 1 kilometer in the maximum lobe), and the closest permanent residence or public road is over 500 meters distant from the proposed antenna location. An extensive search of this location included an on-site survey, as well as a search of the US Census record for this location. The on-site survey no residential structures, trails or roads. The area encompassed by the 100 dbu contour is steep, forested hillside. A site map is attached to this application, and the 100 dbu contour is plotted on the map.

The applicant is confident that this site, along with the proposed frequency change will resolve any interference concerns that either the previous use of Ch. 272D, or the proposed use of Ch. 269D may have raised.

Respectfully submitted,

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