



# Broadcast Engineering Services of Bonny Doon, Inc.

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## Engineering Statement KPFB NIER Study KPFA Studio Building

### *Introduction*

As a part of the renewal of license for KPFB (BLED-19910909KB), a comprehensive calculated analysis of the KPFB site was undertaken to determine compliance with the requirements of OET Bulletin 65, Edition 97-01, and other applicable FCC rules, as needed. As the site has only one FM broadcast station, and no other broadcast facilities, only the RFR level from KPFB was calculated.

### *Analysis*

The calculated cumulative RF level at the site was determined using the individual station power level, antenna model and effective radiated power. The FCC FM Model program was utilized to determine individual NIER levels for KPFB.

KPFB uses a 2-bay, 1/2-wave spaced Jampro JMHP-2RFR antenna, mounted at 20 meters above ground (center of radiation). The following table of results illustrates compliance with FCC RFR rules at KPFB.

<u>Facility</u>	<u>Calculated Maximum RFR Level</u>	<u>% of Public limit</u>
KPFB	4.2 $\mu$ w/sq. centimeter @ 36 meters	2.1%

**Total Percentage of Public RFR limitation: 2.1%**

Based upon these calculations, the KPFB site and the electromagnetic broadcast operations at the site do not exceed the public limit for RF emissions, as specified by the FCC Rules. Access is restricted by secure fencing to persons having permission to access the site. The site is posted with RF Warning signs.

## **Conclusion**

Based upon the forgoing calculations, the Licensee of KPFB is confident that the KPFB site, and the operations of KPFB in particular, are well within the FCC limits for exposure to RF emissions, and in compliance with the FCC and ANSI rules concerning RF exposure to the general public.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D. Mussell Jr.', with a stylized, cursive flourish.

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