

Broadcast Engineering Services of Bonny Doon, Inc.

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KIPM Waikapu Hawaii Special Conditions Statement BMPED-20151130BWT August 17, 2017

Special Conditions

- 1) The licensee, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from Radiofrequency electromagnetic fields in excess of FCC guidelines.

2) Spurious Emissions

Utilizing an Agilent N9340B spectrum analyzer, spurious emissions from the combined operation of KKUA and KIPM were examined on August 15, 2017. Measurements in the near field within 30 meters of the tower with both of the transmitters operating at full power, as well as measurements made at 1 kilometer from the tower were made. No spurious by-products were detected using the Agilent N9340B test instrument. And no spurious emissions were found that exceeded the specifications of 47 CFR sections 73.317(b) through 73.317(d).

3) Proper RFR measurement documentation:

4) RFR measurements

Utilizing a Narda NBM-550 test instrument (Serial Number E-0960) with an EF-0391 wide-band probe (Serial Number A-1311), measurements were made in and around the KKUA/KIPM tower site on August 15, 2016. A series of measurements around the tower revealed RFR levels in compliance with the public limit of 200 microwatts per squared centimeter, with a maximum level of 137 microwatts per squared centimeter found at various points around the tower. Within the fence surrounding the tower, the Narda meter and probe revealed lower levels, the maximum level found was 65 microwatts per squared centimeter directly below the antenna system.

Because RFR levels were found to be well under both the public and occupied standard, the installation is in compliance with the standards specified in OET Bulletin No 65, Edition 97-01, August 1997, and FCC rules concerning RFR exposure.

With regard to Condition 6, a continuation of the waiver of section 73.1125 allowing KIPM will continue to operate as a satellite facility of KIPO(FM), facility ID No 26440, Honolulu, Hi. is requested.

Respectfully submitted,

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

Don Mussell
Consulting Engineer