

ENGINEERING STATEMENT OF JOEL T. SAXBERG

This application for auxiliary antenna for KEAG Channel 247C1, Anchorage, AK was prepared for MCC Radio, LLC, by Broadcast Engineering and Equipment Maintenance Company, "BEEM CO."

RADIOFREQUENCY ELECTROMAGNETIC FIELDS – The proposed KEAG auxiliary antenna will be mounted at 59.8 meters above ground level and operated with 5.25 kW vertical polarization only. The proposed Kathrein, four element antenna has downward electromagnetic fields which are suppressed greater than 11 dB (.3 relative) below the horizontal reference. Computations indicate radiofrequency electromagnetic field levels of 0.0047 mW/cm² at two meters above ground level. These levels are less than 5% of the maximum permitted exposure levels for the general public and this installation would be considered a non-contributor to REF levels since the site is in compliance. KWHL and KMXS share the tower and utilize half-wave spaced antennas. The combined RF power density from these two antennas is calculated to be less than 0.013 mW/cm². When necessary for others to climb or work on the antenna support structure, KEAG will reduce power or cease operation as necessary to protect persons having access to the site or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.