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ENGINEERING STATEMENT

concerning

**APPLICATION BY SAND HILL MEDIA CORPORATION
TO MAKE A MINOR MODIFICATION TO THE
KQEO FM CONSTRUCTION PERMIT**

FCC File No. BPH-19970808MK

This statement and attached exhibits have been prepared for Sand Hill Media Corporation relative to application to make a minor modification to the construction permit for KQEO FM at Idaho Falls, Idaho, FCC File No. BPH-19970808MK. This application requests a change in the antenna location by only 141 meters, a slight reduction in the height above average terrain and antenna supporting structure height. No other changes are requested.

The original construction permit was granted with contour protection to second adjacent channel station KRAR, channel 295C at Brigham City, Idaho as permitted by 47 C.F.R. Section 73.215. This application for modification also requests the same contour protection to KRAR as demonstrated in the attached exhibits.

The proposed FM antenna will have a height above average terrain of 182 meters. The effective radiated power will remain at 82 kW to comply with 47 C.F.R. Section 73.211(b)(2) of the Rules for a Class C1 station. The proposed antenna site is not in a populated area but is located in the immediate vicinity of other communications facilities including FM Radio Station KUPI-FM.

The 60 dBu and 54 dBu coverage contours for the proposed KQEO, KRAR CP and KRAR APP are plotted in attached exhibits. The heights of the antenna radiation center above average terrain elevation for 360 radials from 3.22 to 16.09 km were determined from the linearly interpolated 30 second point data base supplied by the National Geophysical Data Center. Elevation points were tabulated every 0.1 kilometers. The distances along these radials to the predicted 60 dBu and 54 dBu contours were determined from reference to the propagation data published by the FCC in Section 73.333. The two attached contour plots demonstrate complete compliance with 47 C.F.R. Section 73.215.

Attached is an environmental statement concerning human exposure to radio frequency radiation. The Applicant proposes to install an antenna with 0.6 wavelength vertical spacing between radiating elements to minimize the radio frequency power density at ground level areas surrounding the antenna supporting structure.

Respectfully submitted,



Robert A. McClanathan, P.E.
McClanathan and Associates, Inc.
Professional Electrical Engineers

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