

potential hazard of R.F. radiation.

KUNV will be utilizing an ERI 3 bay 1 wave spaced model MP3E circularly polarized non-directional antenna. The center of radiation is 55 meters above the ground. By using the formulas expressed in OST bulletin #65, October 1985, "Evaluating compliance with F.C.C. specified guidelines for human exposure to radio frequency radiation", published by the F.C.C.'s Office of Science and Technology. Then by applying a combination of the elements and array pattern as defined in the E.P.A. Study PB85-245868 (Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on AM, FM, and TV Broadcast Services"). A person 2 meters high will be exposed to a maximum of 29.92 microwatts per square centimeter at a distance of 26.7 meters from the base of the tower. This value is 2.99% of the maximum value for a controlled environment. Since the top of the mountain is a round knob with steep drop offs, 26.7 meters from the antenna in reality would be many meters lower in elevation further reducing the chance of exposure to high ANSI levels.

In regard to protecting workers at the tower site, should work be required where exposure would result in a non-ionization radiation level greater than the maximum A.N.S.I. standard, KUNV will cause the FM antenna to cease radiating, or lower its power to a safe level until the workers clear the area