

Non-Ionizing Radiation Compliance Statement

The following engineering statement has been prepared for **Minnesota Public Radio**, and pertain to non-ionizing radiation compliance for station KNOW(FM)¹. The data contained in this report was acquired on Wednesday June 16, 2010.

Measurements were performed using a Narda 8718 Broadband Radiation Survey System with a model 8742D isotropic electric field probe. The probe utilized is frequency shaped and provides a value that is a percentage of the occupational / controlled environment condition of the IEEE C95.1-1991 standard.

At the time of the survey, all broadcast facilities were known to be operational into their main antenna systems at full power. The acquired measurements therefore represent the normal operating conditions of the site. Survey measurements were performed both within the transmitter building and on the grounds outside the building.

Within the shared transmitter building housing KNOW(FM) transmission equipment, measurements were performed in areas under and immediately adjacent to transmitter and transmission line². No locations within these areas were identified where the measured power density exceeded the uncontrolled environment condition of the applicable safety standard.

Additional measurements were performed outside the transmitter buildings within the fenced compound. Within these measurements, performed within an approximate radius of 200 meters

¹ KNOW(FM) has a Facility ID of 42949 and operates from the Telefarm, Inc. tower assigned ASRN 10223882.

² The building and tower support additional facilities including; WCCO(TV), KSTC(TV), KSTP(TV), WUCW(TV), KARE(TV), WLTE(FM), & KSTP(FM).

from the base of the tower, no locations were identified where the measured power density exceeded the uncontrolled environment condition of the applicable safety standard. The radius of 100 meters was chosen based on data from the Commissions *FM Model* software package, which indicated the peak in power density was expected to occur between 80 and 100 meters from the tower base.

Access to the areas referenced within this report are restricted to personnel having training in RF safety procedures as well as education in the hazards of exposure to RF radiation in the excess of applicable standards. As a result, the controlled environment condition of the IEEE C95.1-1991 standard is applicable in this instance. Access to the area is controlled to the perimeter by fencing and electronically controlled gates with ID proximity card controls. The building is further secured by steel doors and locks. There is no general public access to these areas.

All areas within the study are in controlled areas. However, the measured power density at all locations **does not exceed 100% of the uncontrolled environment condition** of the IEEE C95.1-1991 standard at any of the locations described. Outside of the building power densities were between 1.5 and 19% of the uncontrolled environment condition of the standard. Inside the controlled access transmitter facility power densities were measured between 48.5 and 97% of the uncontrolled environment condition of the standard.

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2011

Jeremy D. Ruck, PE
June 17, 2010