

ENGINEERING EXHIBIT
RF Radiation Compliance Statement
KFRH(FM) Auxiliary, Mount Arden, Nevada

The auxiliary transmitting facilities authorized in construction permit File no. 93799 is located in the Mount Arden telecommunications site, situated approximately 4 miles south of Henderson, Nevada. The area around the antenna structure is on private property and is not accessible to the general public. Access is restricted via five locked gates and steep intervening terrain.

On March 16, 2020, the undersigned conducted RF exposure measurements around the tower structure that supports the KFRH auxiliary antenna while the subject facility was operated as authorized in its construction permit. These measurements were made using a Narda model 8616 Broadband Isotropic Radiation Monitor (S/N 11094), coupled with a Narda-Loral Microwave model 8633 E-field isotropic probe (S/N 08051). The 8633 is a shaped probe conforming to the 1997 FCC "General Public/Uncontrolled Standard" (OET 65). This combination of laboratory-calibrated instruments, identifies the reading of the E-field component as a percentage of the plane wave equivalent power density corresponding to the said exposure standard. The resultant measured E-field component was compared to the GP/US standard for the band of frequencies under study, and was then expressed as a percentage of the permissible RFR level under the Standard. Spatial average readings made from 10 to 50 feet from the base of the antenna structure revealed that the KFRH FM auxiliary antenna, operating at this site and at full authorized power, does not exceed the Standard at any location.

Measurements were made using the "max hold" and "slow response" features of the Narda 8616 meter while slowly walking about the tower base and surrounding area out to a distance of 50 feet. The meter probe was swept in a continuous circular motion, covering as much of the volume of free space from zero to seven feet elevation as was practical.

Some areas within 50 feet of applicant's building and antenna, notably the arc between 290 and 45 degrees T, exhibit sheer drop-off, as the said facility, while fenced on all sides, abuts a vertical precipice. Applicant's facility houses the following RF generating sources, exclusively:

| | | | | |
|---------------------|--------|------------|-----------|----------------|
| KFRH FM (auxiliary) | 104.3 | 1.7 kw ERP | 15m AGL | File no. 93799 |
| KGNG-LD | ch. 26 | 15kwERP | 15.2m AGL | File no. 59298 |

No locations on this site exceed the limits specified in 1997 FCC GP/US (OET 65). These measurements were taken with, to the best of our knowledge, all local and adjacent transmitters operating at their full licensed powers and antenna characteristics. The highest intermittent peak reading encountered over the entire area was 0.15 % of the 30-300 MHz General Public/Uncontrolled Standard with the KFRH auxiliary operating at authorized power. Accordingly, no ground areas within the broadcast site have been found to exceed the FCC occupational exposure limit under any operational condition.

As a further precaution, the entire tower site, including the arc over the site's sheer precipice, is securely fenced and gated to preclude public access. As a consequence, no further mitigation measures are required for compliance with the above guidelines limiting public exposure, arising from the KFRH auxiliary antenna operation. Evidence of the facility's inaccessibility to members of the public, is detailed in Exhibit A, attached hereto.

Exhibit A, prepared by auxiliary FM stations KOMP and KXPT who occupy an adjacent building and tower at the Mount Arden community transmitting facility, provides photographic detail of the five sequential security gates and encircling fencing on the way to the site's summit. The entire facility is located in a controlled and wholly uninhabited region, requiring a 20-30 minute four-wheel drive starting from Shadow Canyon Drive, the nearest two-lane municipal road of general accessibility. The KFRH auxiliary is situated approximately one hundred feet East of the auxiliary KOMP and auxiliary KXPT building and tower within the Mount Arden telecommunication complex.

Based upon my observations and measurements, and upon historical RFR and geographic data pertaining to Mount Arden Nevada, the application of KFRH auxiliary for licensing, complies with applicable FCC Rules regarding human exposure to RF radiation.

Edward R. Stolz
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