

EXHIBIT 9
SPECIAL OPERATING CONDITIONS - NIER ANALYSIS
KRBX, Caldwell, ID

Installed Facilities

The permittee has opted to use a different antenna than studied in its FCC Form 340 application. Therefore, under the terms of its Construction Permit (Special Operating Condition/Restriction #2), the Automatic Program Test Provisions of §73.1620 do not apply. In compliance with this CP, an RF Exposure study is included below. It shows that the all RF exposure guidelines are met. The applicant hereby requests authorization to commence operation via Program Test Authority.

NIER Calculations

The permittee has installed a Jampro JMPC-4R antenna, with 7900 watts ERP, and a center of radiation of 25 meters above the ground. This is 2 meters higher than the CP, which is within the allowable tolerance. Using FM Model for Windows, Version 2.10, the peak RF exposure from this antenna is predicted to be $132.8\mu\text{w}/\text{cm}^2$ at 9 meters from the tower. The tower is at a ridgeline, with lower elevations in all directions away from the tower base.

All other parameters specified in the CP have been precisely met.

Co-located with KRBX is licensed station KQTA, Homedale, ID. KQTA uses an SWR FM10/10 0.75 lambda-spaced 10-bay antenna at 49.7m AGL, with 100kw ERP. This antenna is the functional equivalent of the Jampro "Double-V" design. Using FM Model for Windows, a peak exposure of $8.3\mu\text{w}/\text{cm}^2$, at 27.6 meters from the tower is predicted. The only other RF emitter at the site is an unlicensed low power 5.8 GHz lanlink with a narrow beam width dish. It is not a significant contributor to ground level RF exposure.

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While the peak exposures of the two FM stations do not fall at the same points on the ground, they are simply added here for simplicity. The total “worst-case” peak predicted exposure therefore is $132.8 + 8.3 = 141.1\mu\text{w}/\text{cm}^2$. This represents 70.55% of the Maximum Permissible Exposure (MPE) of $200\mu\text{w}/\text{cm}^2$ for uncontrolled environments.

The area is extremely remote, and only accessible via a one hour drive on unimproved mountain roads. Nonetheless, access to the tower is prevented by a 6-foot fence with a locked gate. All personnel are required to follow appropriate safety procedures before any work is done on the tower. Power will be reduced or operation will cease, as necessary, and in cooperation with KQTA, to prevent human exposure in excess of FCC standards.

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