

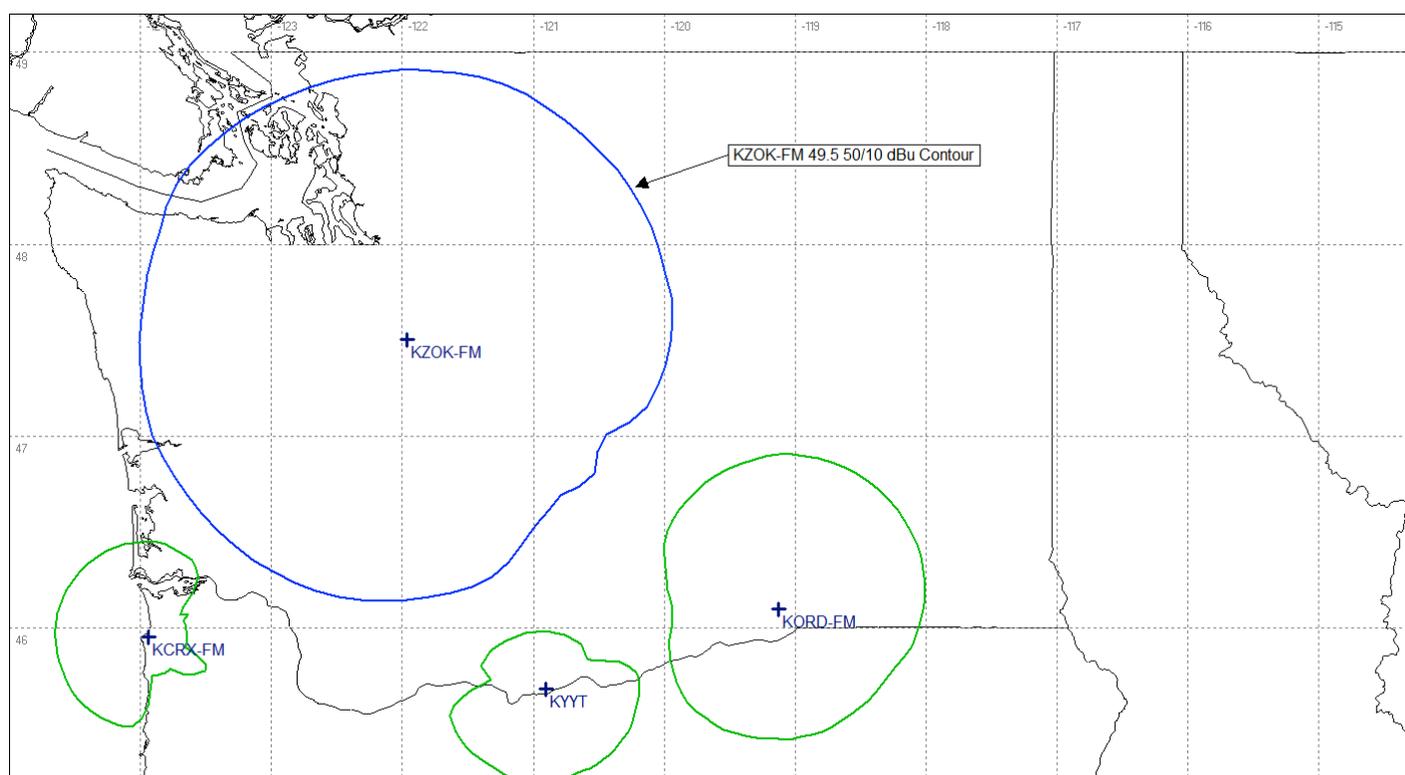
Engineering Statement

Eligibility of KZOK-FM for an HD Power Increase and Calculation of the -11 dbc IBOC Power Levels

FCC Docket MM 99-325 authorized a general power increase for FM digital operations.

The FCC rules allow operation of the total HD power of the IBOC signal to be -11 dBc if the $49.6 \text{ dB}\mu$ F(50,10) field strength does not overlap the protected $60 \text{ dB}\mu$ F(50,50) contour of a potentially affected first-adjacent channel analog FM station. A study was conducted using ComStudy propagation modeling software to determine if KZOK-FM operating at class limits of 100 KW at 600 Meters HAAT would qualify to operate with its total digital HD power at -11 dBc. The study shows that KZOK satisfies the requirement and could operate at that power level.

49.6 dB μ , F(50-10) for KZOK-FM and the 60 dB μ , F(50-50) For relevant First Adjacent Stations



The digital transmitter power output is calculated to be **2.42 kW**. The analog TPO will be **25.85 kW**.

CBS certifies that, with the exception of the digital power level requested, the proposed digital operation will comply with the technical specifications set forth in Appendix B of the *First Report and Order* in MM Docket No. 99-325.

With respect to the RF environmental issues, CBS certifies that the site will continue to comply with the Commission's rules regarding protection to the general public and workers from exposure to RF levels in excess of the most stringent guidelines set forth in the Commission's rules.