

ENVIRONMENTAL STATEMENT
K245CD ALBUQUERQUE, NM
PAN AMERICAN BROADCASTING, INC.
FCC FORM 349
NOVEMBER 2017

The applicant proposes to mount its current antenna on an existing 6.3 meter non-registered monopole. The proposed Center of Radiation will be 6.3 meters Above Ground Level. An Aldena CP log periodic style yagi directional antenna is being proposed, with a maximum Effective Radiated Power of 250 watts vertical and horizontal polarization. The proposed antenna Center of Radiation, above ground, was reduced by 2 meters to allow for the average height of a human on the ground. With the vertical pattern of the Aldena antenna calculated in, calculations predicts a peak exposure of $190.82 \mu\text{w}/\text{cm}^2$ at any point on the ground around the base of the tower. This represents 95.4% of the allowable Maximum Permissible Exposure ("MPE") of $200 \mu\text{w}/\text{cm}^2$ for uncontrolled environments at any point on the ground. RF power density Measurements will be made around the base of the pole to ensure compliance. The proposed directional antenna has deep vertical nulls which should produce a much lower power density at any point on the ground than these worst case predictions.

The applicant will ensure that the public access to the tower is restricted by fencing, anti-climb devices or other appropriate measures. The site will be posted with RF warning signs. If climbing of the tower by authorized personnel becomes necessary, transmitter power will be reduced to safe operating levels, or transmission even terminated, as necessary as not to exceed the RF exposure limits to tower workers. The

licensee will cooperate with other users at the site with the scheduling of such tower or antenna maintenance.

No modification of the existing tower is proposed, other than the proposed side mounting of the antenna system and addition of a transmission line. The tower was constructed prior to March 16, 2001. The National Programmatic Agreement generally allows such a collocation without consultation or review under Section 106 and Subpart B of 36 CFR §800. The applicant believes that it is in full compliance with the Agreement, and that no further study is required.