

ENVIRONMENTAL STATEMENT
K293DA SEDONA, ARIZONA, CH. 293D
TABBACK BROADCASTING CO., INC.
MINOR CHANGE APPLICATION
APRIL 2022

The applicant proposes replacing its current antenna on an existing 57 meter overall height, FCC registered tower # 1003531. The proposed Center of Radiation will be 53.8 meters Above Ground Level. A circular polarization, Nicom BKG88/2L, directional, two bay antenna with three quarter wavelength (0.75) between the two bays is proposed. Calculations were made using FM Model for Windows, version 2.10. 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. FM Model predicts a peak exposure of $1.16 \mu\text{w}/\text{cm}^2$ at a distance of 9.2 meters from the base of the tower. This represents 0.6 % of the allowable Maximum Permissible Exposure (“MPE”) of $200 \mu\text{w}/\text{cm}^2$ for uncontrolled environments at any point on the ground. Since the Nicom antenna is not specifically listed in the FM Model program, the worst case “Type 1” antenna was used for the study.

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.