

EXHIBIT 17-A

Human Exposure to Radiofrequency Electromagnetic Field & Section 106 Compliance (Environmental)

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. 1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. Alpine Broadcasting Corporation seeks to modify K284CH Channel 284D (104.7 MHz) Facility ID# 153375, Kansas City, MO by changing the transmit antenna and height above ground level. The proposed transmit location is an existing tower 335.9 meters in overall height and is registered with an Antenna Registration Structure (ASR) number 1003006. The tower site coordinates are 39° 00' 56 N. ~ 94° 30' 24 W. (NAD 27). The antenna system will be a one bay Nicom BKG77 circularly polarized directional antenna oriented at 100 degrees azimuth true north, with a center of radiation of 284 meters AGL. The proposed K284CH would operate with 99 watts ERP circular polarization at 284 meters above ground level and 281 meters HAAT. The Nicom antenna is also the transmit antenna for FM translators K257DZ, CH257D, Facility ID No. 149102, Kansas City, MO and K295CH, Channel 295D, Facility ID No. 36259, Harrisonville, MO. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of § 1.1306 of the FCC Rules. Because K284CH proposes to operate from an existing tower and no modification of the tower is being made, it is believed to be exempt from a Section 106 review by the SHPO/THPO.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. The Nicom antenna is included in the Commission's recently revised FM Model for Windows program as a Type 2 Opposed "V" dipole. Using this antenna type,. The maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.0229 $\mu\text{W}/\text{cm}$ at 289 meters, which is 0.0115 percent of the general population uncontrolled maximum permitted exposure limit.

The maximum combined signal density near the tower at two meters above ground level attributable to the combined signals of K257DZ, K284CH and K295CH operating at their licensed effective radiated power is 0.0724 $\mu\text{W}/\text{cm}$ at 289 meters, which is 0.0362 percent of the general population uncontrolled maximum permitted exposure limit.

This is well below the five percent threshold limit described in 1.1307(b) regarding sites with multiple emitters, which excludes applicant from responsibility for taking any corrective action in areas where the proposal's contribution is less than five percent.

The applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce

power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.