

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

Momentum Broadcasting LP, (“Momentum”), seeks to modify KJUG-FM Channel 294B licensed to Tulare, California, Facility ID# 71714, by changing the transmitter site and operating with an effective radiated power of 28.5 kilowatts at 133.4 meters height above average terrain. The proposed tower will be 74.9 feet (22.8 meters) above ground level. KJUG-FM will operate with a 6 bay full half wave side mounted ERI Model SHPX-6AC antenna with a center of radiation of 14.1 meters AGL. Momentum will complete a Section 106 review by the SHPO/THPO to determine if the proposed construction and/or modifications at this communications site will have a significant environmental effect.

The following other FM station is proposed to operate from this tower:

KCRZ                      Channel 285A                      Tipton, CA                      Facility ID# 37015

KCRZ will operate with 3.1 kilowatts at 141 meters HAAT. KCRZ will transmit with a 2 bay half wave side mounted ERI Model LPX-2-HW mounted with a center of radiation of 21.5 meters above ground level.

The proposed KJUG-FM operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission’s OET Bulletin Number 65. Using the FM Model for Windows the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $146.72 \mu\text{W}/\text{cm}^2$  at 72 meters, which is 73.36 percent of the general population/uncontrolled maximum permitted exposure limit and 14.67 percent of the limit for “controlled” environments.

The proposed KCRZ operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission’s OET Bulletin Number 65. Using the FM Model for Windows the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $48.44 \mu\text{W}/\text{cm}^2$ , at 40 meters, which is 24.22 percent of the general population/uncontrolled maximum permitted exposure limit and 4.84 percent of the limit for “controlled” environments.

<u>CALL</u>	<u>Channel/Class</u>	<u>Polarity</u>	<u>Antenna AGL</u>	<u>ERP kW</u>	<u>% of Uncontrolled Limit</u>
KJUG-FM	294B	H&V	14.1 meters	28.5	73.36
KCRZ	285A	H&V	21.5 meters	3.1	24.22

Total of ANSI “Uncontrolled” value 97.58%

The proposed tower site is located on private land in a remote location. The nearest public access point is over 2,000 feet away. The applicant will see that signs are posted at all entry points onto the property and 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.