

**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 27.1 kilowatts at 146.7 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.

The answer to Question 17 of Section III has been changed to Yes. The applicant retained, and has now received the report of Michael Brandman Associates (MBA), an environmental services firm known to the Commission, and the Yes answer results from the MBA study.

Through its study, MBA determined that the tower and site use proposed in this application will not affect any of the nine special interest items outlined in Section 1.1307(a) 1 through 9 of the FCC’s rules. Consequently, the MBA report concluded that “in accordance with FCC regulations, the preparation of further studies or an EA is not warranted.”

MBA did recommend that construction activity avoid the avian nesting season, February-August. The applicant intends to follow that recommendation.

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>Limit</u>	<u>Channel/Class</u>	<u>Polarity</u>	<u>Antenna AGL</u>	<u>ERP kW</u>	<u>% of Uncontrolled</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.