

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

Momentum Broadcasting LP, (“Momentum”), is the licensee of KJUG-FM Channel 294B, Facility ID# 71714, licensed to Tulare, CA. Momentum is filing this minor modification application to construct an auxiliary site for KJUG-FM. The KJUG-FM auxiliary facility will operate with a 2 bay full wave side mounted ERI Model LP-2 antenna with a center of radiation of 27.1 meters AGL. The KJUG-FM auxiliary facility will operate with 3.0 kW @ 202 meters HAAT.

The KJUG-FM auxiliary facility is locating to an existing tower and it is believed that the proposed modification is exempt from a Section 106 review by the SHPO/THPO.

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 $46.045 \mu\text{W}/\text{cm}^2$, at 17 meters, which is 23.02 percent of the general population/uncontrolled maximum permitted exposure limit and 4.60 percent of the limit for “controlled” environments.

The following other stations propose to operate from this tower:

KIOO	Channel 259B	Porterville, CA	Facility ID# 7708
KCRZ Aux.	Channel 285A	Tipton, CA	Facility ID# 37015

KIOO will operate with 25.0 kilowatts at 214 meters HAAT. KIOO will transmit with a 6 bay 0.91 fractional wave side mounted ERI Model LPX-6C mounted with a center of radiation of 38 meters above ground level.

The proposed KIOO 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 $14.545 \mu\text{W}/\text{cm}^2$ at 6 meters, which is 7.27 percent of the general population/uncontrolled maximum permitted exposure limit and 1.45 percent of the limit for “controlled” environments.

The proposed KCRZ auxiliary facility will operate with 1.4 kW at 194 meters HAAT. KCRZ will transmit with a three bay full wave side mounted ERI Model LP-3 with a center of radiation of 19.5 meters above ground level.

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 $31.99 \mu\text{W}/\text{cm}^2$, at 9 meters, which is 15.99 percent of the general population/uncontrolled maximum permitted exposure limit and 3.20 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>
KIOO	259B	H&V	38.0 meters	25.0	7.27
KJUG-FM	294B	H&V	27.1 meters	3.0	23.02
KCRZ	285A	H&V	19.5 meters	1.4	15.99

Total of ANSI “Uncontrolled” value 46.28%

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.