



United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

CALIFORNIA STATE UNIV., LONG BEACH
RESEARCH FOUNDATION
6300 E. STATE UNIVERSITY DRIVE
SUITE 332
LONG BEACH CA 90815

George H. Gwinn
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 8197

Call Sign: KKJZ

License File Number: BMLED-20050207AAJ

Grant Date: November 06, 2006

This license expires 3:00 a.m.
local time, December 01, 2013.

This license modifies license no.: BLED-20041210ABD granted 1/5/2005

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Name of Licensee: CALIFORNIA STATE UNIV., LONG BEACH RESEARCH FOUNDATION

Station Location: CA-LONG BEACH

Frequency (MHz): 88.1

Channel: 201

Class: B

Hours of Operation: Unlimited

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Transmitter output power: 15.5 kW

Antenna type: Directional

Description: ERI MP-4E-DA-HW, four sections, 0.5 wavelength spacing

Antenna Coordinates: North Latitude: 33 deg 47 min 58 sec

West Longitude: 118 deg 09 min 43 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	30.0	30.0
Height of radiation center above ground (Meters):	43	43
Height of radiation center above mean sea level (Meters):	149	149
Height of radiation center above average terrain (Meters):	137	137

Antenna structure registration number: 1218222

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

- 1 The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by construction permit BPED-20001221ABV.

A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:

. 30.0 kilowatts (H&V) .

Principal minima and their associated field strength limits:

30 - 80 degrees True: 6.3 kilowatts

Special operating conditions or restrictions:

- 2 The licensee has demonstrated compliance with the FCC radiofrequency electromagnetic field exposure guidelines based upon the usage of the antenna specified herein. If the licensee makes any changes in facilities via modification of license application in accordance with 47 CFR section 73.1690(c), the subsequent Form 302-FM, application for license, must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines.

- 3 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

*** END OF AUTHORIZATION ***