

**Richard W. Burden Associates**

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**Engineering Statement**

**Reference: FEDERAL COMMUNICATIONS COMMISSION**

**APPLICATION FOR SPECIAL TEMPORARY AUTHORITY For a FM Transmission System for use within the confines of the Monterey Bay Resort South Convention Center Las Vegas Nevada., during the period of February 19 through February 23 2006.**

Applicant: EARADIO, Inc.

Location:

South Convention Center  
Monterey Bay Resort  
3950 Las Vegas Boulevard, South  
Las Vegas - Clark County - Nevada

Geographical Coordinates of the Monterey Bay Resort Complex

36 - 05 - 32 North Latitude                      115 - 10 - 21 West Longitude    NAD 83

Transmitting Equipment

The carrier frequency and modulation source which will be employed for the duration of this test period is a Hewlett Packard 8648 Signal Generator. The Hewlett Packard 8648 has the capability of maintaining the output frequency to a tolerance +/- 300 Hz.

The output from the signal generator is then boosted to 3 watts through the use of an EIN 3100LA Linear Amplifier (Maximum power output 3 watts)

The antenna employed is a single bay Discone Vertically Polarized Non Directional antenna, with a power gain of 1. The antenna is will be located inside the building, and thus, produces to physical hazard to aircraft.

Requested Frequency of Operation:      87.5 mHz

Emission Designator:              200F3

### Spectrum Study

The frequency of 87.5 MHz is located in the spectrum of TV Channel 6. There is no TV Channel 6 in the Las Vegas area. The nearest FM Channel operating in the area is 3<sup>rd</sup> adjacent channel KCEP (FM) operating at 10kW ERP @ -39 feet HAAT.

Thus, with a 3 watt transmitter power output limitation and its 3<sup>rd</sup> channel adjacency, the proposed operation, should pose no interference to the reception of KCEP.

*Richard W. Burden*

October 18, 2005