

ENGINEERING STATEMENT RE:
SPECIAL TEMPORARY AUTHORITY
AND R.F. EXPOSURE STATEMENT
KJEE(FM) CH. 225A - 820 WATTS
MONTECITO, FM, INC.

INTRODUCTION

KJEE(FM) is licensed to Montecito, FM, Inc., serving the community of Montecito, California. It transmits from a remote ridge top site north of Montecito, at the Gibraltar Peak Communications Facility, a multi-user transmitter site. The site is located in the Santa Ynez Mountains in the Los Padres National Forest. The Gibraltar transmission site is home to several dozen low power broadcast, FM radio and other communications facilities. In addition to FCC Rules and Regulations it operates under Forest and local regulations and permits. KJEE(FM) is requesting a Special Temporary Authority to operate with reduced ERP during work at the site.

Several fires have swept through the forest and low brush covering these Pacific Coast mountain ridges and the KJEE site, significantly impacting the operations there. KJEE has been able to remain on the air at this site throughout these events by the prompt repair to its facility and emergency modification of its transmitter system as necessary to accommodate the ongoing repair to other facilities at the site that were damaged or destroyed by the fires.

Most recently, as a result of construction activities, KJEE(FM) has had to dismantle its backup antenna and now relies entirely on its one-bay antenna. KJEE(FM) also has had to rely on a temporary mounting structure and employ its one-bay antenna at reduced ERP and slightly reduced antenna height. These actions again were required to accommodate the ongoing restoration at the multi-user site. The reduced ERP is required to minimize the RF Exposure area to facilitate the reconstruction work.

TEMPORARY OPERATION

The KJEE(FM) transmitting antenna is a one-bay, Antenna Concepts Inc., Model FM Tracker-1. It is located adjacent to the paved drive and parking area, South West of the transmitter building. This location is shown in the photographs and site plan exhibits attached to this statement. The area immediately around the temporary KJEE(FM) antenna has been fenced off with orange construction barrier fencing and marked with appropriate RF Exposure warning signs. The KJEE(FM) ERP has been reduced from the authorized 820 Watts to 200 Watts ERP. Considering the very short distance to the south, and line of sight to the licensed community of Montecito, principal community coverage is maintained with this reduced ERP.

R.F. EXPOSURE SURVEY AND MONITORING

As a result of the reconstruction project, and due to local site restrictions, the RF Exposure in the area has been measured regularly. A Narda Type 8716 RFR Monitor with Model 8722 Probe has been used for the RF Exposure measurements. This broad band instrument has a shaped response so that it reads directly in percentage of FCC adopted maximum permissible exposure limits. Attached are maps and tables indicating the RF Exposure values at selected locations near the KJEE(FM) antenna. At a short distance from the KJEE antenna, outside of the fence surrounding the antenna, the exposure values are all less than 100% of the Controlled Environment limits. At a slightly greater distance, because of the low ERP, the exposure levels drop quickly and fall below the Uncontrolled Environment limit. These broadband measurements take into account all sources of RF Exposure and report the total exposure on the shaped response meter.

R.F. EXPOSURE STATEMENT

Access to the Gibraltar transmission site is generally restricted by the surrounding fences, a locked gate at the entrance, and numerous conspicuous RF Exposure warning signs. Access to the KJEE antenna area is restricted by the fence surrounding it and the suitably placed RF Exposure warning signs. The terrain around the site is very rugged and access is possible only by the paved access roads to this non-public forest site.

The RF Exposure at the site, particularly during the ongoing reconstruction period, is monitored as the work areas move around the site. KJEE(FM) will continue to operate with reduced ERP, or terminate operation as necessary, to avoid excessive RE Exposure.

SPECIAL TEMPORARY AUTHORIZATION REQUEST

The KJEE(FM) temporary antenna relocations have been within a few meters of distance and antenna elevation of that authorized for KJEE(FM). The STA antenna location is therefore still located at the authorized coordinates. The reduced ERP is approximately one fourth of the licensed ERP. An STA is requested to allow KJEE(FM) to operate with this modified reduced power transmission facility so as to continue to facilitate the reconstruction at the site and to minimize RF Exposure in the area. The time needed to complete reconstruction is unknown, therefore a 12 month STA is requested at this time.

Respectfully Submitted,

by 

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MD Lic. No. 19672



NOTICE



Radio Frequency Signals Interfere with certain safety devices. Use of this equipment is prohibited. For more information, please contact the FCC at 47803.



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CAUTION
HIGH VOLTAGE
NO TRESPASSING



UNCONTROLLED
AREA

Readings < 20%

CONTROLLED AREA

CONCRETE
BLOCK
BUILDING

ACU

READINGS FROM 09-17-2011

M1 - 100%
M2 - 100%
M3 - 100%
M4 - 60%
M5 - 80%
M6 - 30%
M7 - 43%
M8 - 65%
M9 - 40%

M1

M8

M2

M9

M7

KJEE
ANTENNA

M3

M5

M6

100
62.95

2140
2144
2142

2164
2162
2160