

# **Engineering Report for**

**Radio Stations KEAL-FM and KXTT-FM**

**In support of Construction Permits**

**BMPH-20080111AAB**

**BMPH-20080111AAC**

**Demonstrating compliance to**

**OET Bulletin No. 65, Edition 97-01, August 1997**

**By Michael F. Weaver**

# Michael F. Weaver

Michael F. Weaver, being duly sworn upon his oath, deposes and states that:

He has 32 years broadcast engineering experience with his office at 2900 Sutro Street, Reno Nevada, 89512.

That his qualifications are a matter of record in the Federal Communication Commission.

That the attached engineering report was prepared by him and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be information and belief, and as to such facts, he believes them to be true.

Michael F. Weaver

Michael F. Weaver

Subscribed and sworn to before me this 4 day of March, 2008.

Dawn Keeble

Notary Public

My Commission Expires:



# Engineering Report

The measurements in this report are for the benefit of Lazer Broadcasting Corporation to demonstrate that during normal transmitting conditions, Radio stations KEAL-FM, Maricopa, CA, and KXTT-FM, Taft, CA comply with OET Bulletin No. 65, Edition 97-01, August 1997. Radiofrequency electromagnetic (RF) field strength measurements were made throughout the transmitter site area to determine if there were any areas that exceeded the FCC guidelines for human exposure to RF fields.

## **Procedures:**

A Narda Model 8778 (sn# 01453) field intensity meter was used for the measurements. The Narda Model 8742 Isotropic Shaped Electric Field Probe was selected for the measurements. The 8742 Probe was attached to the Narda 8778 meter and the meter was turned on. I placed the 8742 probe into the equipment case per manufacturer instructions, and closed the lid, having the probe cable exit the case through the front of the case. I instructed the Narda Meter to “zero” the probe.

After the meter was “zeroed”, I coiled the probe cable into my hand, grasped the probe with two fingers, and strapped the Narda meter to my hand. This position is indicated to be “the most accurate” measurement methodology. The Narda meter scale was set to indicate a maximum of 600% of the occupational scale. 89% indicated 100% of the Public Protected Scale.

Two surveys were conducted of the KEAL/KXTT transmitter site. One survey consisted of specific physical locations as indicated on the “KEAL/KXTT RFR SURVEY POINTS” map that I produced prior to these procedures. This map is used to give me a general idea as to the overall RFR condition of the site. The second survey was more thorough, but did not specify any locations. It consisted of my walking around to virtually

the entire site, sniffing around to find if there were any “HOT SPOTS”. This included extremely close proximity to the radiating structure and the transmitting apparatus. Close attention was paid to metallic materials. The instrument was held at the 6 foot level and the height was varied throughout the survey.

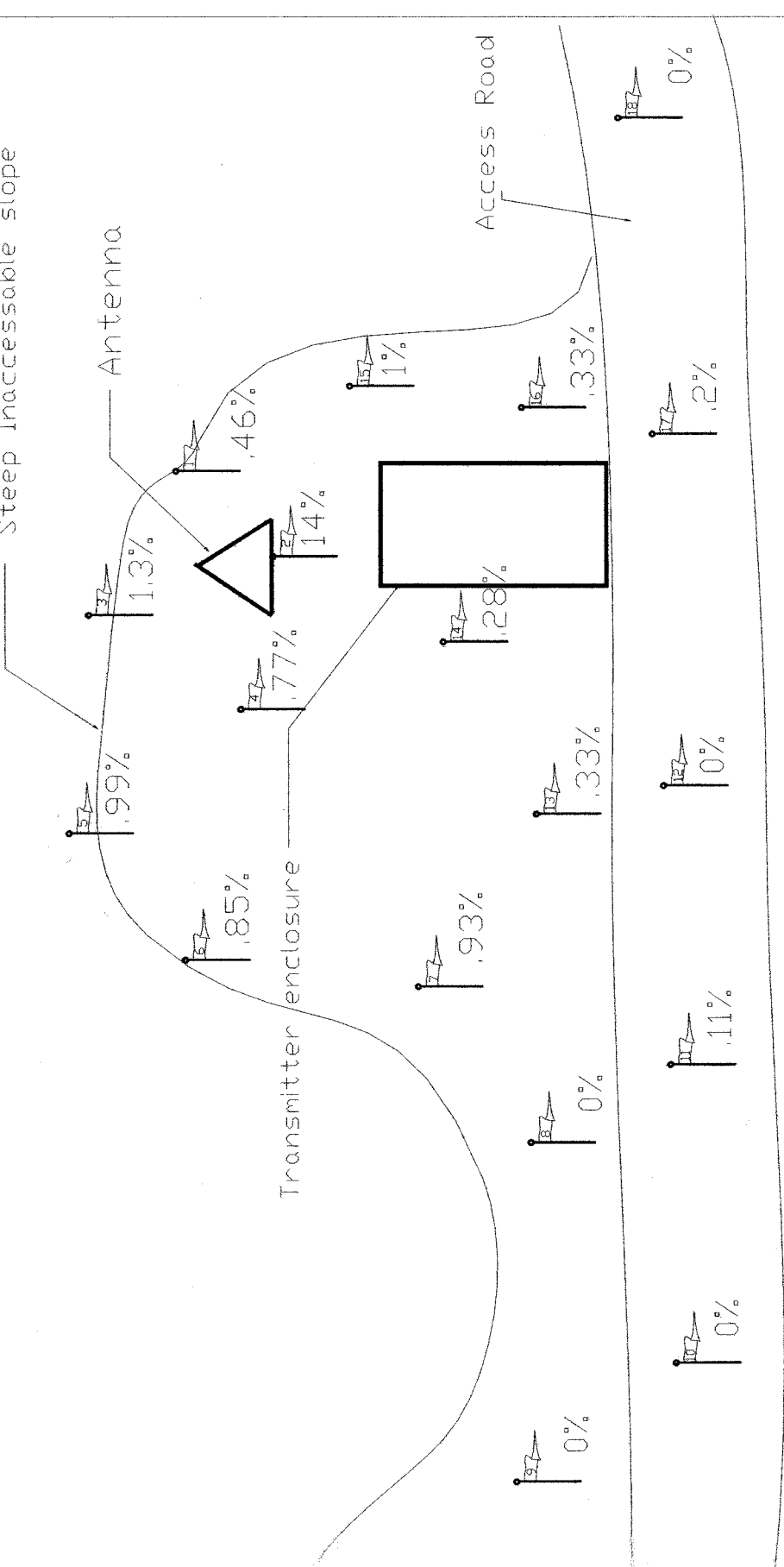
Prior to turning on the KEAL and KXTT transmitters, I performed a cursory survey of the site and found it to be very quiet from an RFR standpoint. Most of the site read 0.0%.

### **Conclusions:**

The initial “POINTS” survey at no time indicated more than 15% of the more relaxed “Occupational Scale” and that measurement was made within 1 inch of the radiating element structure. The vast majority of the measurements at the access road were many times indicating 0%. On several occasions, I walked over to the radiating elements to get a deflection, just to make sure the instrument was working. The instrument was confirmed to be fully operational.

During the second more detailed survey, I found the vast majority of the site to have levels between .10% and 1% indications on the Occupational Scale. Extremely close proximity to the radiating structure increased the level to 15% of the Occupational Scale. Levels in and around the transmitter housing were in the .33% and .75% level.

I conclude that this site easily falls within the OET Bulletin guidelines regarding Occupational as well as General Public exposure to radiofrequency electromagnetic fields. The site will be fenced for security reasons anyway and poses no hazard to the public.



SPECIFICATIONS		CONTRACT NO.	COMPANY
	DRAWN BY	DATE	Lazer Broadcasting Corp.
	CHECKED BY		TITLE
	DESIGNED BY		KEAL/KXTT RFR SURVEY POINTS
	DESIGN ACTIVITY		SIZE
			FSCM NO.
			DWG NO. / FILE NAME
	CUSTOMER		SCALE
			DATE
			SHEET
			1 of 1