

**GREG BEST  
CONSULTING, INC.**

5541 Vantage Vista Drive  
Colorado Springs, CO 80919  
719-592-9781

December 15, 2004

Federal Communications Commission  
Media Bureau  
445 12<sup>th</sup> Street SW  
Washington, DC 20554

Dear Sir,

This will serve as the exhibit for the RF Radiation Hazard calculation for this proposed facility.

The RF radiation near the ground (2 meters above ground) can be calculated using the OET-65 formula for broadcast television stations taking into account the following factors

S= power density in watts per square meter

P= total Effective Radiated Power from the antenna

F= field radiated on the axis to the ground level

R= distance to the ground level (actually 2 meters above ground)

Therefore, given the following data:

P= 4.375 kwatts

R=Radiation center above ground level – 2 meters)  
= 1 meters

F= 0.1 for UHF antennas

The RF radiation near the ground level can be calculated with the following result:

0.66 mwatts/cm<sup>2</sup>

which is 149% of the general population exposure (GPE) limit of 0.450 mw/cm<sup>2</sup> and 29.7% of the Occupational and Controlled (O&C) exposure limit. This transmission facility is located within a fence with controlled access. The facility is located on government property within the Naval Air Warfare Station at China Lake. Appropriate signage is located on the premises on the entry fence and on the antenna mounting structure and personnel operating on the premises are appropriately cautioned regarding the hazards of RF radiation.

Should you have any questions regarding this information please contact me.

Sincerely,

*Greg Best*

President