

**October 2005**  
**West Tiger Mountain Master Antenna - Entercom Site**  
**NIER Analysis**

**Facilities Proposed**

The proposed operation will be with a maximum lobe effective radiated power of 72 kilowatts. Operation is proposed with the existing 4-level ERI 1080 directional master panel antenna, mounted on a self-supporting tower located atop West Tiger Mountain near Issaquah, Washington.

The FCC Antenna Structure Registration Number for the tower is 1056823.

**NIER Analysis**

Several FM stations share the existing ERI master panel antenna proposed for use in this application, and each of these stations is proposing by individual application to increase its maximum lobe ERP from 58 to 72 kW:

KPLU-FM	203C	Tacoma
KING-FM	251C	Seattle
KISW	260C	Seattle
KQBZ	264C	Seattle
KMTT	279C	Tacoma
KNDD	299C	Seattle

KBSG-FM 247C Seattle operates from a separate antenna on this tower. In addition, stations KLSY-FM 223C Bellevue and KWJZ 255C Seattle presently operate from the combined antenna, but hold construction permits to move to another tower (owned by American Tower) approximately 1800 feet distant. Due to power handling limitations on the combiner and transmission system, the power increase proposed herein will not occur until KLSY-FM and KWJZ have relocated.

In part because the Commission's FMModel program does not include an appropriate element pattern for the ERI panel antenna, a simple calculation of the individual

contributions of all broadcast users at this site, and summation of the individual maxima, would indicate a result which exceeds the FCC standard for both controlled and uncontrolled areas. Previous on-site non-ionizing electromagnetic RF field measurements conducted by this firm have identified locations where the applicable standard was exceeded, and those areas have been appropriately fenced and signed. Following relocation of KLSY-FM and KWJZ to their new transmitter site, and implementation of the power increases proposed for the stations on the master antenna, a new set of measurements will be made to ensure that any areas which exceed the applicable standard are fenced and signed. A report detailing these measurements, and any remediative action taken, will be included with the Form 302-FM application for license.

Public access to the tower site is restricted by a fence with a locked gate, and the antenna tower is posted with warning signs. Pursuant to OET Bulletin No. 65, all station personnel and contractors are required to follow appropriate safety procedures before any work is commenced on the antenna tower, including reduction in power or discontinuance of operation before any maintenance work is undertaken.

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 radiation in excess of FCC guidelines.