

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of Television Translator K69FB, Channel 69 in Sacramento, California in support of this Application for Construction Permit to specify an increase in effective radiated power. No change in site location or effective radiated power toward the radio horizon is proposed herein, however the coordinates and site elevation have been corrected to reflect the values in the FCC's database.

Exhibit B is a map upon which the predicted service contours are plotted. Operating parameters for the proposed facility are provided in Exhibit C. An engineering analysis reveals that the proposed facility meets all of the FCC's interference Rules with respect to analog and digital full-power authorizations as well as to other LPTV and translator facilities.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1038784 to this tower.

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Sacramento facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 85.3 kw, an effective

antenna height of 122 meters above ground, and the vertical pattern of the Bogner antenna, maximum power density two meters above ground of  $0.00099 \text{ mw/cm}^2$  is calculated to occur near the base of the tower. Since this is only 0.1 percent of the  $0.53 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) for a facility operating on Channel 69 (800-806 MHz), this proposal may be excluded from consideration with respect to public exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

KEVIN T. FISHER

January 8, 2001