

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of NRJ TV III CA LICENSE CO., LLC, licensee of Class A digital television station KNLA-CD, on Channel 50, Los Angeles, California, in support of its Application for Construction Permit to specify operation on its post-repack channel, Channel 32. No change in transmitter site location, antenna pattern or antenna height is proposed herein.

It is proposed to mount an ERI AL8O-32-H omnidirectional antenna at the 196-meter level of the existing 296-meter KNLA-CD tower. The proposed effective radiated power for the facility is 10.7 kW, which is the allotted repack power level for KNLA-CD. Exhibit B is a map upon which the predicted 51 dBu service contour is plotted.

An elevation pattern for the proposed antenna is provided in Exhibit C. Since the facility proposed herein specifies the exact repack allotment facility assigned to KNLA-CD, no interference study is included herein. A power density calculation appears as Exhibit D.

Since no change in the overall height or location of the existing KNLA-CD structure is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the FCC issued Antenna Structure Registration Number 1012836 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read "K. T. Fisher".

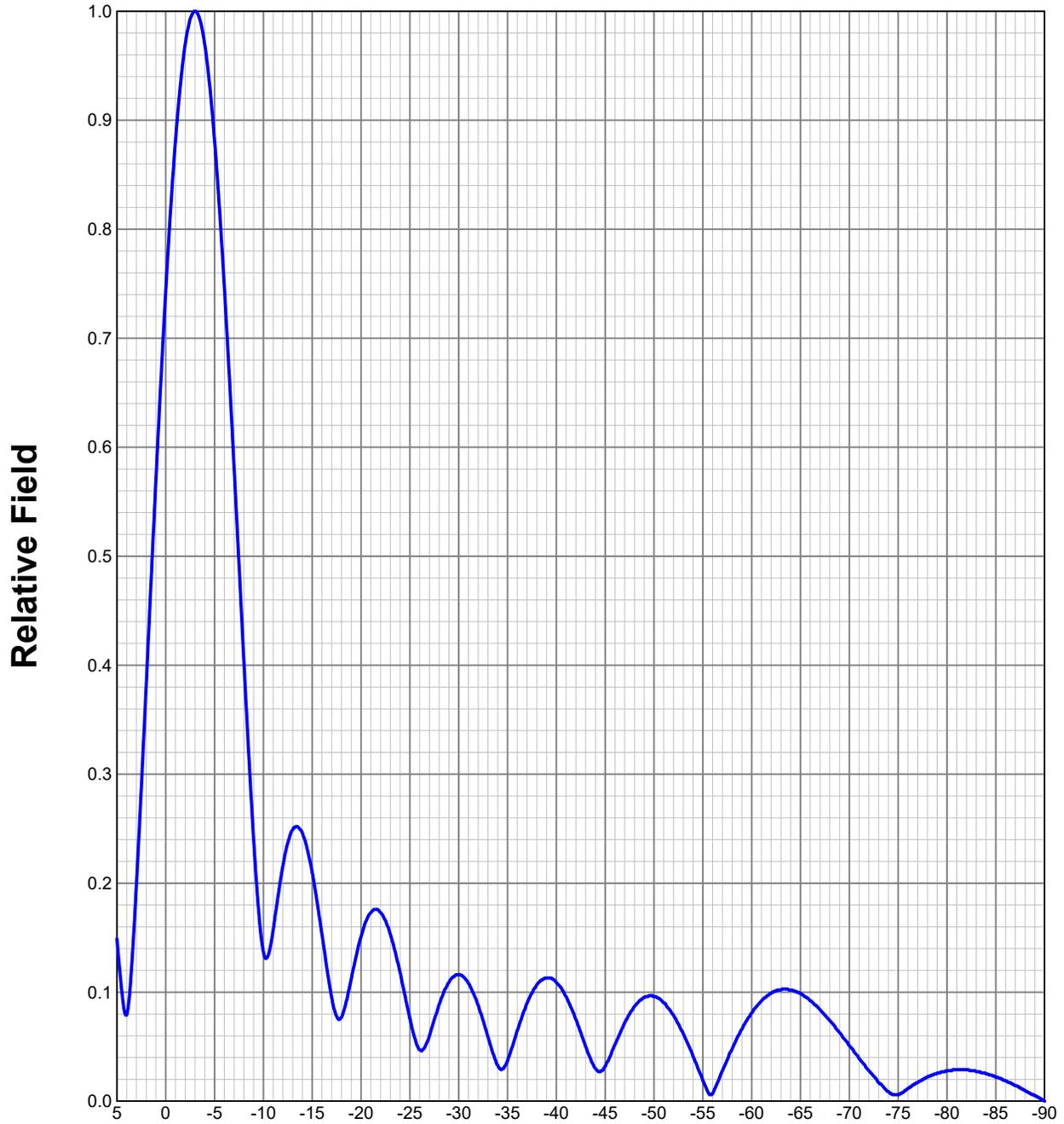
May 23, 2017

KEVIN T. FISHER



**ELEVATION PATTERN**

Type:	AL8		Channel:	32
Directivity:	Numeric	dBd	Location:	
Main Lobe:	8.68	9.39	Beam Tilt:	-1.75
Horizontal:	4.79	6.80	Polarization:	Horizontal



Preliminary, subject to final design and review.

POWER DENSITY CALCULATION

PROPOSED KNLA-CD  
CHANNEL 32 – LOS ANGELES, CALIFORNIA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Los Angeles facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 10.7 kW, an antenna radiation center 196 meters above ground, and the specific elevation pattern for the proposed ERI AL8O-32-H antenna, a maximum power density value two meters above ground of  $0.000081 \text{ mW/cm}^2$  is calculated to occur 97 meters from the base of the tower. Since this is less than 0.1 percent of the  $0.39 \text{ mW/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 32 (578-584 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing 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 non-ionizing radiation.