

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KAILUA TELEVISION, LLC, licensee of KKAI(TV), Channel 50 in Kailua, Hawaii, in support of its Application for Construction Permit to operate with a post-transition DTV facility on Channel 50, its allotted channel.

It is proposed to utilize the existing Andrew omnidirectional antenna, which is mounted at the 33-meter level of an existing 35-meter tower. Exhibit B provides an elevation pattern for the licensed antenna. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 48 dBu service contour. An interference study is included in Exhibit D, and it is important to note that the study utilized a cell size of 1.0 kilometers and an increment spacing of 0.1 kilometers. A power density calculation is provided in Exhibit E.

It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the KKAI-DT site. However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in overall height or location of the existing tower is proposed herein, the FAA has not been notified of this application. Due to the diminutive height of the tower and its proximity to the nearest airport runway, FCC antenna structure registration is not required. This conclusion is supported by the Commission's TOWAIR Program.

EXHIBIT A

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.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', with a stylized flourish at the end.

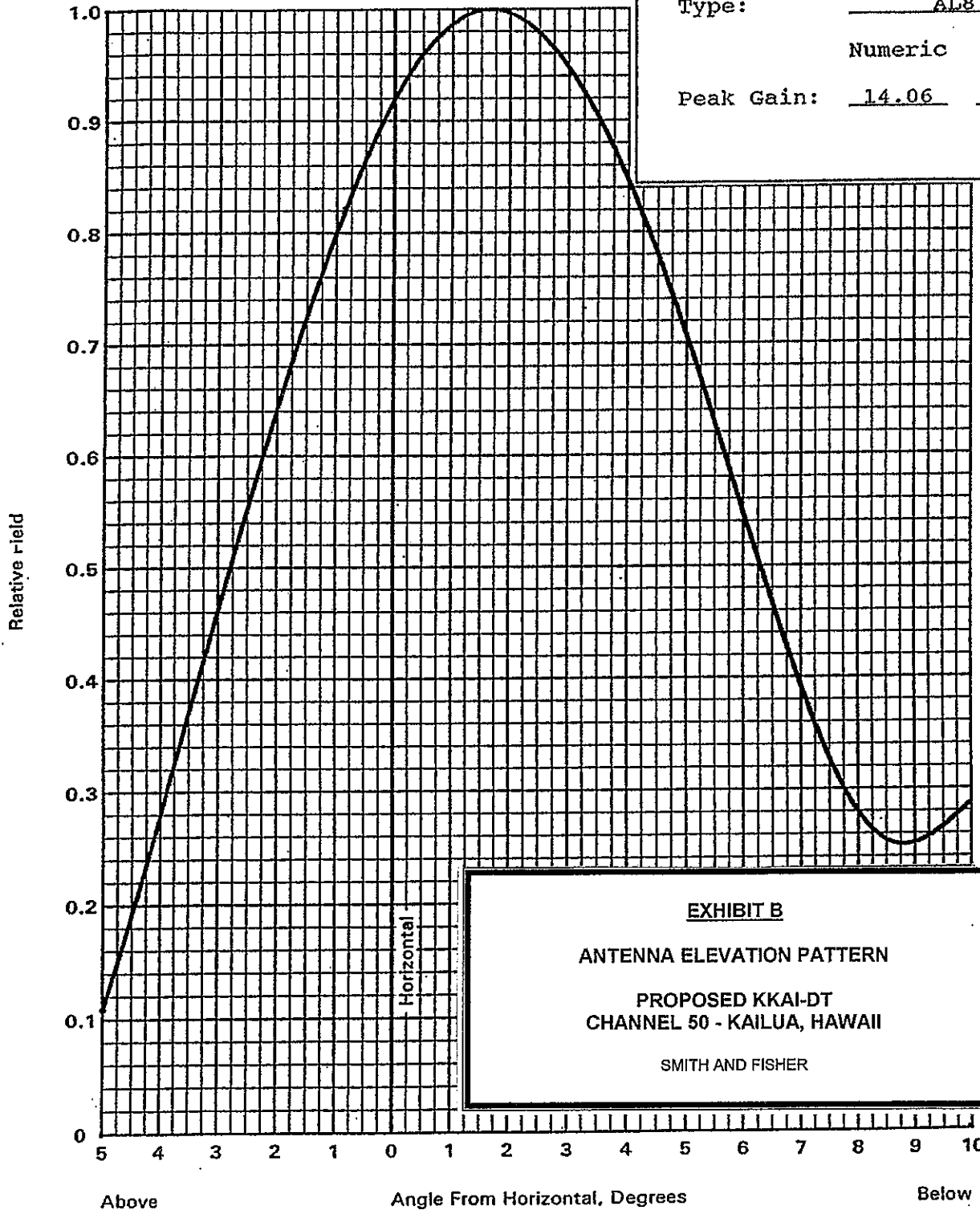
KEVIN T. FISHER

June 16, 2008

**ANDREW**  
**ELEVATION PATTERN**

Type: AL8

	Numeric	dBd
Peak Gain:	<u>14.06</u>	<u>11.48</u>



**EXHIBIT B**

ANTENNA ELEVATION PATTERN

PROPOSED KKAI-DT  
CHANNEL 50 - KAILUA, HAWAII

SMITH AND FISHER

**ANDREW CORPORATION**  
10500 W. 153rd Street  
Orland Park, Illinois U.S.A. 60462

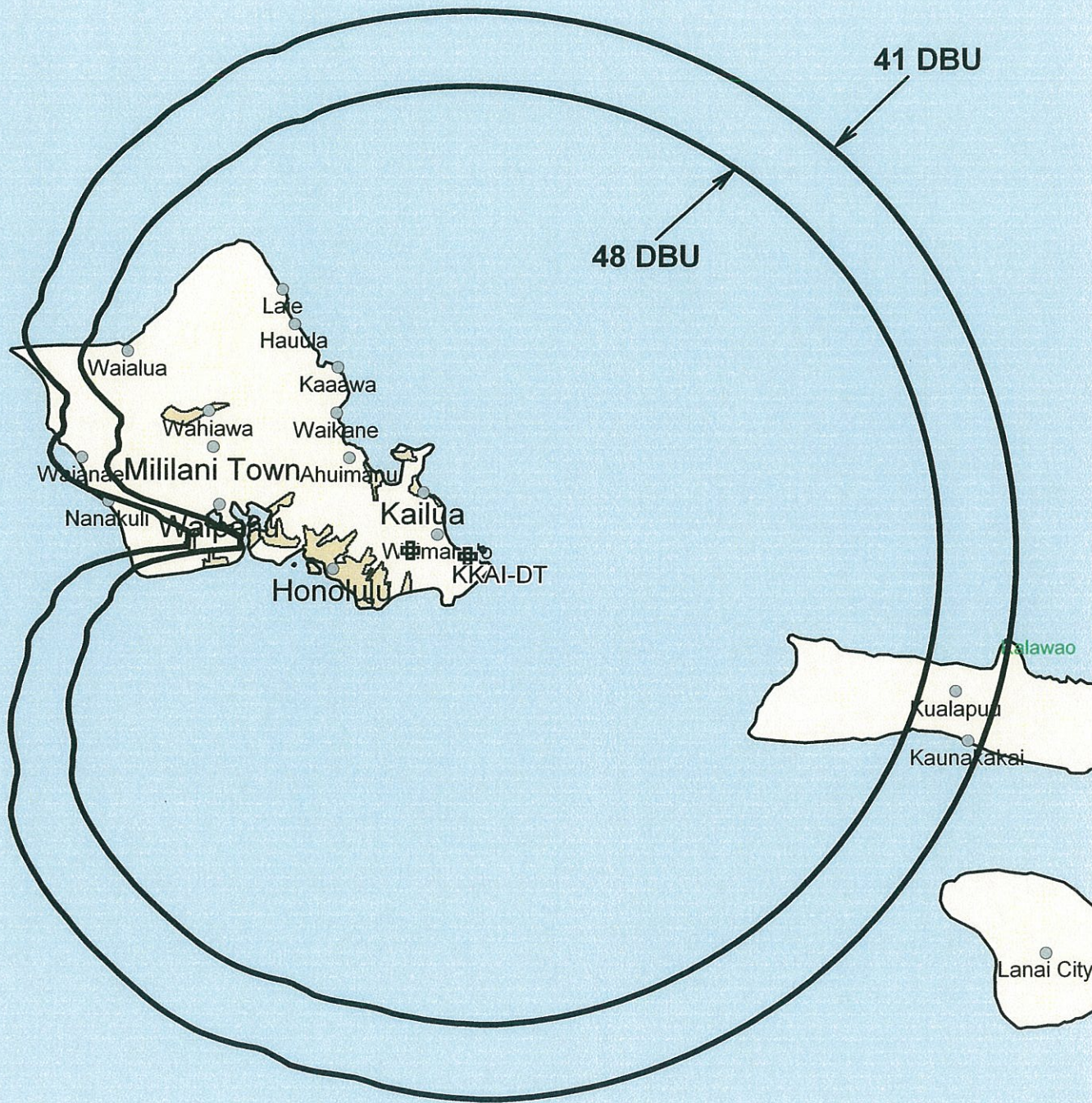


**CONTOUR POPULATION**

**48 DBU : 785,844**

**41 DBU : 847,828**

**SMITH and FISHER**



Scale 1:848,611

0 10 20 30 km

**EXHIBIT C**

**PREDICTED SERVICE CONTOURS**

**PROPOSED KKAI-DT  
CHANNEL 50 - KAILUA, HAWAII**

SMITH AND FISHER



INTERFERENCE STUDY

PROPOSED KKAI-DT  
CHANNEL 50 – KAILUA, HAWAII

The instant application specifies an ERP of 12.0 kw (omnidirectional) at 373 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various post-transition digital television facilities as they will exist on or before February 17, 2009, the date by which all stations must operate with the parameters recently adopted in the Commission's DTV Table of Allotments.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe III" computer program, which has been found generally to mimic the FCC's program. In conducting our studies, we employed a cell size of 1.0 kilometers and an increment spacing of 0.1 kilometer along each radial. In addition, we utilized the 2000 U.S. Census. Changes in interference caused by proposed KKAI-DT to other pertinent stations are tabulated in Exhibit D-2.

As shown, the proposed KKAI-DT facility would not contribute more than 0.5% interference (beyond that which is caused by the allotted KKAI-DT facility) to the service population of any potentially affected post-transition DTV station.

A Longley-Rice interference study also reveals that the proposed KKAI-DT facility does not cause significant (0.5%) interference within the protected service contour of any potentially affected Class A low power television station.

Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

EXHIBIT D-2

INTERFERENCE STUDY SUMMARY

PROPOSED KKAI-DT  
CHANNEL 50 – KAILUA, HAWAII

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From KKAI-DT*</u>	<u>%</u>
[NO STATIONS AFFECTED]					

\*Above that caused by the allotment facility.

Note: This study utilized a cell size of 1.0 km and an increment spacing of 0.1 km.

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED KKAI-DT  
CHANNEL 50 – KAILUA, HAWAII

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Kailua facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 12.0 kw, an antenna radiation center 33 meters above ground, and the elevation pattern of the Andrew antenna, maximum power density two meters above ground of  $0.0040 \text{ mw/cm}^2$  is calculated to occur 28 meters from the base of the tower. Since this is only 0.8 percent of the  $0.46 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 50 (686-692 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level 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.