

EXHIBIT #1
ENGINEERING STATEMENT

Concerning the Application of
KCBX, Inc.
To Make a Minor Change to Licensed NCE FM Translator
K216AG
Cayucos, California

April 2003

Channel 216D

0.03 kW H & V

This engineering statement supports the application filed by KCBX, Inc. to move the transmitter, increase ERP and install an omni-directional antenna for its NCE FM translator, K216AG, BLFT19830509MC. No other changes are proposed.

Under the instant proposal, a type approved, FM transmitter delivers its output to a circularly polarized antenna that radiates a maximum of 0.03 kilowatts in both the horizontal and vertical planes. The antenna will be mounted on a pole attached to the side of an existing building and will have a center of radiation of 20' (6.1 meters).

Page #3 is a coverage map of the proposed 60 dBu contour, showing that the proposal continues to serve the city of license. The land area within this contour was calculated to be 158.14 square kilometers by the use of a compensating polar planimeter. The population within the service area is 9,475, based on 2000 census block data (SF1).

Page #4 of this study is a distance to contour table, showing the new distances to 60 dBu signal contour of the proposal.

Exhibit #12 is an allocation study showing that, at the effective radiated power requested, contour overlap will neither be caused by nor received from any licenses, construction permits or applications. Page # 2 of this exhibit is an explanation of the conventions and abbreviations used in the study. Pages 3-9 are allocation maps and FMOVER tables depicting the relationship between the proposed facility and KCPR, KBDH and K215AF.

There is only one television channel 6 station within the 133 km cutoff distance. KSBY transmits with 100 kW ERP from a location 22.6 km along azimuth 114.9 from the proposed K216AG transmitter site. **Exhibit #13** is a letter from KSBY, showing concurrence with proposed modification of the K216AG facilities.

Exhibit #16 is a statement of the RF hazard compliance of the proposed facility.

Page #5 of this exhibit (Ex. #1) is a declaration made by the preparer, Kate Michler, attesting to her qualifications.

K216AG Proposed 60 dBu Coverage

K216AG

BLFT19830509MC

Latitude: 35-26-46 N

Longitude: 120-52-50 W

ERP: 0.03 kW

Channel: 216

Frequency: 91.1 MHz

AMSL Height: 183.0 m

Elevation: 177 m

Horiz. Pattern: Omni

Vert. Pattern: No

Population = 9,475

Land Area = 158.14 sq km

April 23, 2003

V
Doug Vernier
721 West 1st Street, Suite A
Cedar Falls, Iowa 50613
Telecommunications Consultants



Doug Vernier Telecommunications Consultants
K216AG, KCBX, Inc. - Minor Change to BLFT19830509MC
ERP = 0.03 kW
Channel = 216

Azimuth Deg. T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) Distance to 60 dBu Contour km
0	375.1	-192.1	-15.229	4.13
30	322.8	-139.8	-15.229	4.13
60	388.0	-205.0	-15.229	4.13
90	357.2	-174.2	-15.229	4.13
120	204.3	-21.3	-15.229	4.13
150	91.7	91.3	-15.229	7.27
180	0.3	182.7	-15.229	10.42
210	0.0	183.0	-15.229	10.43
240	0.0	183.0	-15.229	10.43
270	3.3	179.7	-15.229	10.34
300	106.6	76.4	-15.229	6.63
330	187.1	-4.1	-15.229	4.13
Ave. = 169.7 M		13.3 M		

Antenna Radiation Center AMSL = 183 M
NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 35 26 46
W. Lng. 120 52 50

Declaration:

I, Katherine A. Michler, have received a Bachelor of Science degree from the University of Northern Iowa, and;

That, I declare that I have received training as a technical consultant as a member of the staff of Doug Vernier Telecommunications Consultants, and;

That, I have apprenticed under Douglas Vernier for over five years, and;

That, he has been active in broadcast consulting for over 25 years, and;

That, his qualifications are a matter of record with the Federal Communications Commission, and;

That, I am an Associate Member (#20792) of the Society of Broadcast Engineers, Indianapolis, Indiana, and;

That, the consulting firm of Doug Vernier Telecommunications Consultants has been retained by KCBX, Inc.;

That, I have personally prepared these engineering showings, the technical information contained in same and the facts stated within are true to my knowledge, and;

That, under penalty of perjury, I declare that the foregoing is correct.

Katherine A. Michler Katherine A. Michler

Executed on April 23, 2003

Subscribed and sworn before me this 23rd day of April, 2003.



James L. Byers
Notary Public in and for the State of Iowa