

EXHIBIT #1
ENGINEERING STATEMENT

Concerning the Application of
Pensacola Christian College
To Make a Minor Change
To NCE FM Station WPCS
File No. BMLED-20021001ACG

September 2003

CH 208C0

95kW H & V

This engineering statement supports the application of Pensacola Christian College to make a minor change to NCE FM station WPCS, Pensacola, Florida. It has recently been discovered that the licensed coordinates and antenna height above ground for WPCS are incorrect. This application will correct those parameters and reduce ERP to 95 kW. There are no further changes at this time.

A total of 36 evenly spaced radials were used to determine the antenna height above average terrain. The N.G.D.C. 30 arc second database was employed to determine the elevations along the radials that were averaged using the required four-point interpolation method. The resulting averaged radial antenna heights were employed using the Commission's own TVFMINT algorithm to project the distances to signal contours. A tabular listing of the distance to the one mV/m contour can be found on page #3 of this exhibit. Based on the HAAT of 413 meters, WPCS is a Class C0 facility.

Page #4 this exhibit is a computer generated map of WPCS proposed one mV/m F(50-50) contour, using the U.S.G.S. world map database. The city of license, Pensacola, is completely encompassed by this contour. The main studio is located in Pensacola, on the campus of Pensacola Christian College. The land area within the contour is 3,159 square kilometers. This was determined using a compensating polar planimeter. The population within this contour was determined to be 983,184, based on 2000 census block data.

Exhibit #15 is an Allocation Report. Please refer to the index for attachments.

The transmitter is not within 320 kilometers of either Canada or Mexico. The proposed facility is not within the pertinent distances of any AM station, Table Mountain or any FCC monitoring stations or the West Virginia Quiet Zone.

The nearest U.S. channel-six television station, WDSU, New Orleans, is outside the cutoff distance for Channel 208 of 196 kilometers.

Exhibit #22 is an R.F. hazard compliance statement.

Page #5 of **Exhibit #1** is a statement of the qualifications of the preparer.

Kate Michler

Doug Vernier Telecommunications Consultants

N. Lat. = 30 35 16 W. Lng. = 87 33 13

HAAT and Distance to Contour - FCC Method - 30 Arc. Sec.

WPCS, Coordinate and Antenna Height Correction

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	38.8	399.7	95.0000	19.78	1.000	79.21
010	35.2	403.3	95.0000	19.78	1.000	79.48
020	26.5	412.0	95.0000	19.78	1.000	80.12
030	24.1	414.4	95.0000	19.78	1.000	80.30
040	27.1	411.4	95.0000	19.78	1.000	80.07
050	23.4	415.1	95.0000	19.78	1.000	80.35
060	25.3	413.2	95.0000	19.78	1.000	80.21
070	29.9	408.6	95.0000	19.78	1.000	79.87
080	21.2	417.3	95.0000	19.78	1.000	80.51
090	14.2	424.3	95.0000	19.78	1.000	81.04
100	10.7	427.8	95.0000	19.78	1.000	81.29
110	13.5	425.0	95.0000	19.78	1.000	81.09
120	6.9	431.6	95.0000	19.78	1.000	81.58
130	3.2	435.3	95.0000	19.78	1.000	81.85
140	12.7	425.8	95.0000	19.78	1.000	81.15
150	9.4	429.1	95.0000	19.78	1.000	81.39
160	18.4	420.1	95.0000	19.78	1.000	80.73
170	21.5	417.0	95.0000	19.78	1.000	80.50
180	20.9	417.6	95.0000	19.78	1.000	80.54
190	20.8	417.7	95.0000	19.78	1.000	80.55
200	21.9	416.6	95.0000	19.78	1.000	80.46
210	24.2	414.3	95.0000	19.78	1.000	80.29
220	26.4	412.1	95.0000	19.78	1.000	80.13
230	28.7	409.8	95.0000	19.78	1.000	79.96
240	30.3	408.2	95.0000	19.78	1.000	79.84
250	32.7	405.8	95.0000	19.78	1.000	79.66
260	37.2	401.3	95.0000	19.78	1.000	79.33
270	36.0	402.5	95.0000	19.78	1.000	79.42
280	36.1	402.4	95.0000	19.78	1.000	79.41
290	35.3	403.2	95.0000	19.78	1.000	79.47
300	29.9	408.6	95.0000	19.78	1.000	79.87
310	27.0	411.5	95.0000	19.78	1.000	80.09
320	22.8	415.7	95.0000	19.78	1.000	80.40
330	23.6	414.9	95.0000	19.78	1.000	80.34
340	36.3	402.2	95.0000	19.78	1.000	79.40
350	36.2	402.3	95.0000	19.78	1.000	79.40

Ave El = 24.67 M HAAT= 413.83 M AMSL= 438.5 M

WPCS - Proposed Coverage

WPCS

BMLED20021001ACG

Latitude: 30-35-16 N

Longitude: 087-33-13 W

ERP: 95.00 kW

Channel: 208

Frequency: 89.5 MHz

AMSL Height: 438.5 m

Elevation: 41.5 m

Horiz. Pattern: Omni

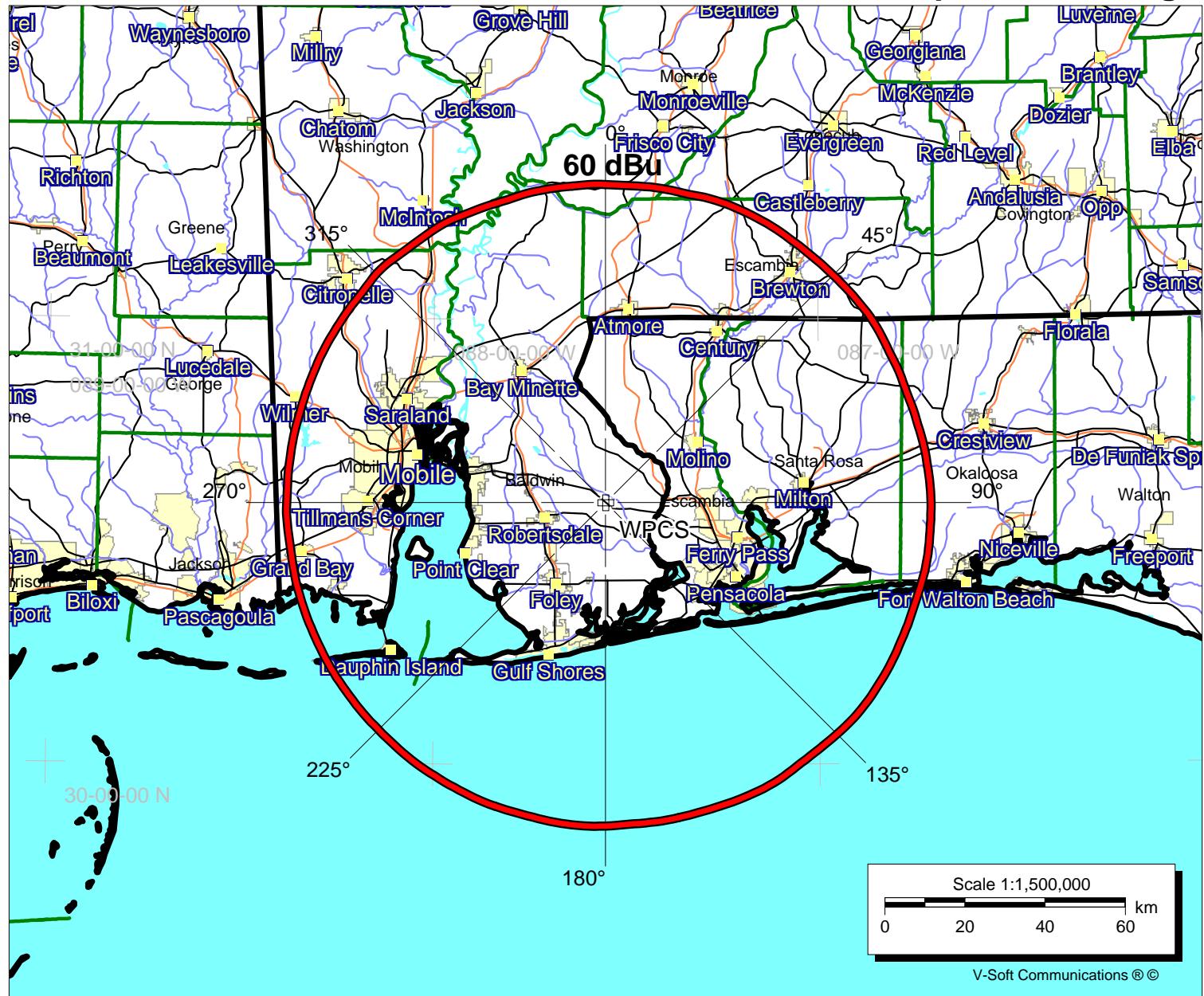
Vert. Pattern: No

Prop Model: FCC Contour

Pop = 983,184

Land Area = 3,159 sq km

September 17, 2003



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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 Pensacola Christian College, Pensacola, Florida;

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 September 18, 2003

Subscribed and sworn before me this 18th day of September, 2003.



Jacob L. Byers

Notary Public in and for the State of Iowa