

EXHIBIT #1
ENGINEERING STATEMENT

Central Educational Broadcasting, Inc.
Minor Change to Licensed Station
WSCF-FM
BMLED-19971002KB
Vero Beach, FL

September 2007

CH 220C2

40 kW H & V DA

This engineering statement supports application filed by Central Educational Broadcasting, Inc. to make a minor change to licensed NCE FM station WSCF-FM, Vero Beach, FL.

The applicant proposes to move the transmitter location, increase antenna height above mean sea level and average terrain, increase effective radiated power, modify the directional antenna pattern and upgrade to a Class C2. No other changes are being proposed at this time.

Pages 3-5 of this exhibit contain information about the proposed directional antenna pattern, the vertical elevation field and the method which will be used to manufacture the antenna.

Exhibit #13 concerns the location of the main studio.

Exhibit #14 shows that the proposed facility meets the community coverage requirements of Section 73.515.

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 map of the proposed 60 dBu contour, with cardinal radials is included on page #2 of Exhibit #14. A tabular listing of the distance to the 60 dBu contour can be found on page #3 of that exhibit.

Exhibit #16 is an Allocation Report showing that there is no prohibited contour overlap with any existing license, construction permit or application.

The proposed station is not within the specific critical distances to the US border with Canada or Mexico, AM broadcast towers, FCC monitoring stations, Table Mountain and the West Virginia Quiet Zone. The applicant is aware of its responsibility under the rules to correct any blanketing interference it may cause within the period of one year from commencement of transmissions of newly authorized facilities.

Exhibit #19 shows that coordination with television channel six station WKMG-TV, Orlando, Florida is pending. This application will be amended to include the consent agreement from WKMG-TV after it is executed. Further study for channel 6 protection was therefore deemed unnecessary.

The applicant proposes the use of registered tower ASR #1030532, constructed in 1998. Since this tower was built before March, 2001 and since no changes are being proposed to the tower structure itself, this application is excluded from environmental processing under 47. C.F.R. Section 1.1306.

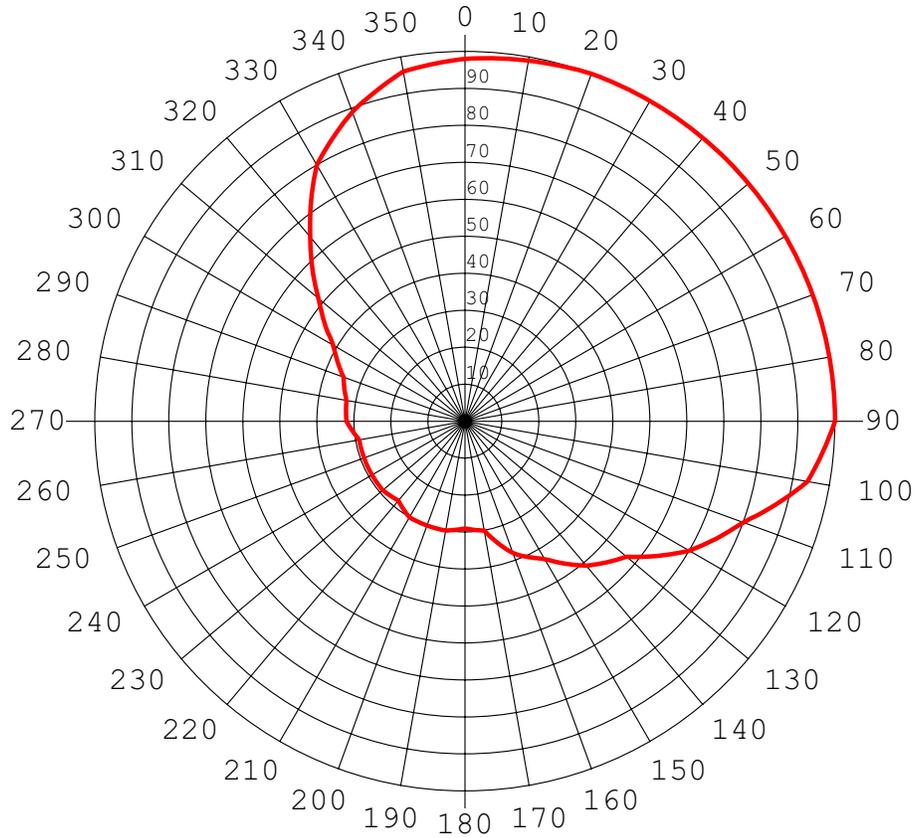
Exhibit #22 is an R.F. emissions compliance statement, showing that workers and the general public are protected from excess radio frequency emissions.

Page #6 of Exhibit #1 is a statement of the qualifications of the preparer.

Kate Michler

WSCF-FM Proposed Pattern

Ex #1, Pg #3



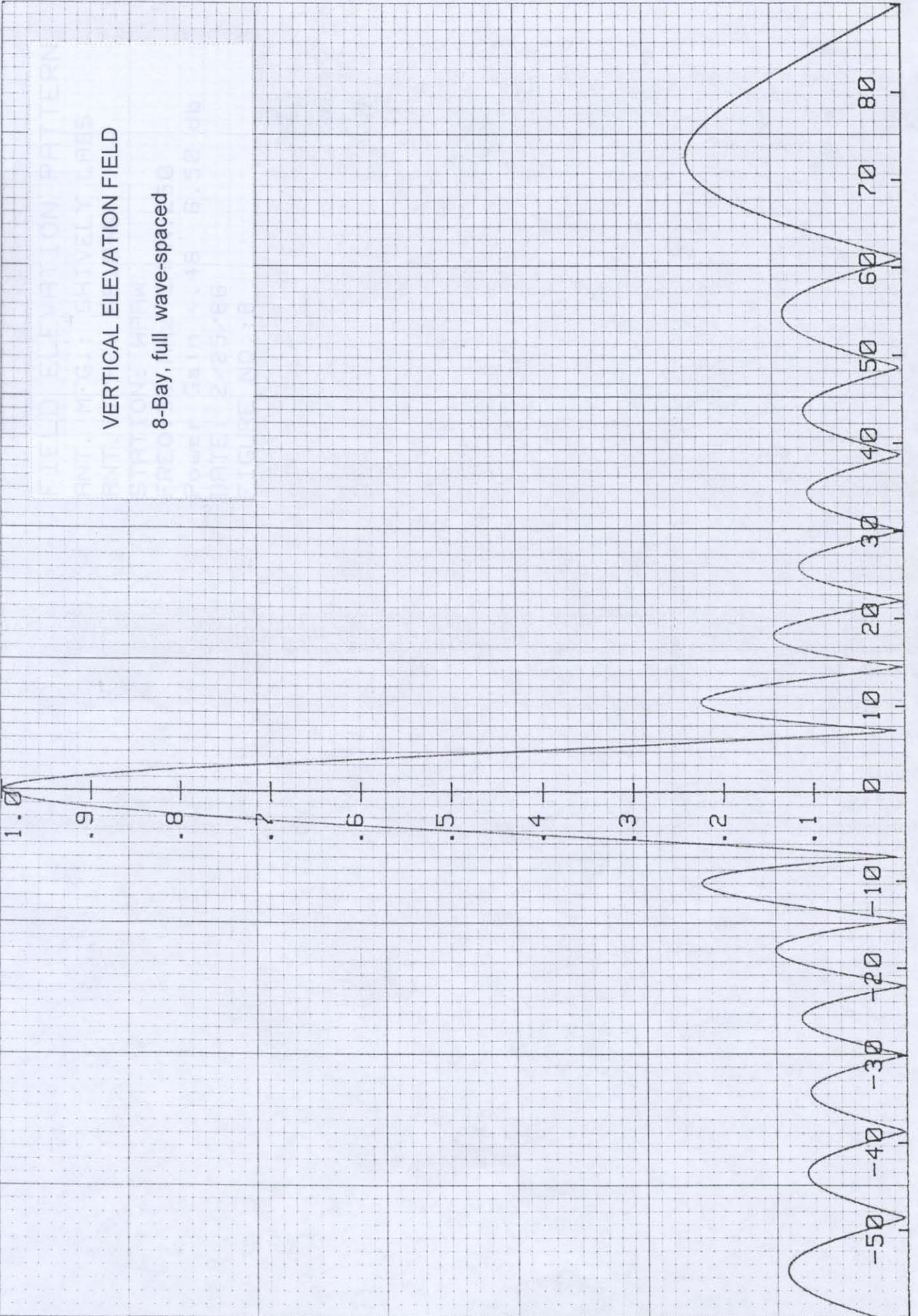
Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	0.980	15.85	38.4	-0.18	180	0.290	5.27	3.4	-10.75
10	0.990	15.93	39.2	-0.09	190	0.300	5.56	3.6	-10.46
20	1.000	16.02	40.0	0.00	200	0.300	5.56	3.6	-10.46
30	1.000	16.02	40.0	0.00	210	0.300	5.56	3.6	-10.46
40	1.000	16.02	40.0	0.00	220	0.280	4.96	3.1	-11.06
50	1.000	16.02	40.0	0.00	230	0.290	5.27	3.4	-10.75
60	1.000	16.02	40.0	0.00	240	0.290	5.27	3.4	-10.75
70	1.000	16.02	40.0	0.00	250	0.290	5.27	3.4	-10.75
80	1.000	16.02	40.0	0.00	260	0.290	5.27	3.4	-10.75
90	1.000	16.02	40.0	0.00	270	0.320	6.12	4.1	-9.90
100	0.940	15.48	35.3	-0.54	280	0.325	6.26	4.2	-9.76
110	0.800	14.08	25.6	-1.94	290	0.349	6.88	4.9	-9.14
120	0.700	12.92	19.6	-3.10	300	0.410	8.28	6.7	-7.74
130	0.570	11.14	13.0	-4.88	310	0.516	10.28	10.7	-5.74
140	0.510	10.17	10.4	-5.85	320	0.650	12.28	16.9	-3.74
150	0.430	8.69	7.4	-7.33	330	0.800	14.08	25.6	-1.94
160	0.380	7.62	5.8	-8.40	340	0.890	15.01	31.7	-1.01
170	0.300	5.56	3.6	-10.46	350	0.960	15.67	36.9	-0.35

Central Educational Broadcasting, Inc.

9/7/07

46 0700

K+E 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



Directional Antenna

The proposed custom directional antenna pattern meets the Commission's rules in that the radio frequency emission does not change more than two dB for each ten degrees of azimuthal variation. Also, the maximum pattern attenuation in the deepest null is less than 15 dB. The pattern shown is a composite of the maximum field values in the horizontal and vertical planes.

The proposed antenna will be mounted on the sides of a post that has been specified by the antenna manufacturer in accordance with the instructions provided by the manufacturer. The antenna will not be mounted on the top of a tower that includes a top mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antennas of any type will be mounted at the same tower level as the directional antenna nor within the horizontal or vertical distance specified by the manufacturer as being necessary to maintain proper directional operation. The antenna will be designed and tested by a major manufacturer of broadcast antennas known to the Commission. The pattern will be achieved through traditional methods including power-splitting, resonators and phasing.

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 been a member of the firm for over nine years, and;

That, my 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 Central Educational Broadcasting, Inc., and;

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 7, 2007