

**EXHIBIT #1
ENGINEERING STATEMENT**

Concerning the Application of
Colorado College
To Construct a New FM Translator
To Serve Walsenburg, Colorado
Long Form – BPFT19970905TA
August 2003

Channel 234D

0.05kW ERP Omni

This engineering statement supports the application filed by Colorado College to construct a new FM translator to serve Walsenburg, Colorado on Channel 234. The application was previously filed before the suspension of new FM translator applications by the Commission. The application is being resubmitted, in its entirety, with no changes, other than an updating of the antenna model to be employed.

Under the instant proposal, the off-air audio signal of primary station KRCC, channel 218, Colorado Springs, Colorado, will be delivered to a type-approved transmitter. This unit will deliver 0.1087 kW to the input of a 1 bay Shively 6812. The antenna has a power gain of 0.46 resulting in an effective radiated power of 0.05 kW, polarized circularly.

A total of 12 evenly spaced radials were used to determine the antenna height above average terrain. The highest radial of the 12 was used to determine the maximum effective radiated power. The USGS 30 arc-second terrain elevation 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 1 mV/m contour can be found on page #2 of this exhibit. A coverage map can be found on page #3.

Exhibit #12 is an Allocation Study showing that no interference will be caused any existing licenses, construction permits or allocations. The proposed station is not within 320 kilometers of the US border with Canada or Mexico. The proposed facility is okay with respect to AM stations, FCC monitoring stations, Table Mountain and the West Virginia Quite Zone.

Exhibit #16 is an RF hazard compliance statement.

Page #4 of Exhibit #E1 is a statement of the qualifications of the preparer.

Kate Michler

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	1865.2	199.8	-13.010	12.28
30	1845.2	219.8	-13.010	12.85
60	1848.3	216.7	-13.010	12.77
90	1874.1	190.9	-13.010	12.03
120	1918.5	146.5	-13.010	10.50
150	1991.8	73.2	-13.010	7.35
180	2055.3	9.7	-13.010	4.71
210	2028.5	36.5	-13.010	5.20
240	2022.3	42.7	-13.010	5.64
270	2076.6	-11.6	-13.010	4.71
300	1993.8	71.2	-13.010	7.25
330	1922.1	142.9	-13.010	10.36
Ave. = 1953.5 M		111.5 M		

Antenna Radiation Center AMSL = 2065
 NGDC 30 Arc Sec.

Geographic Coordinates:

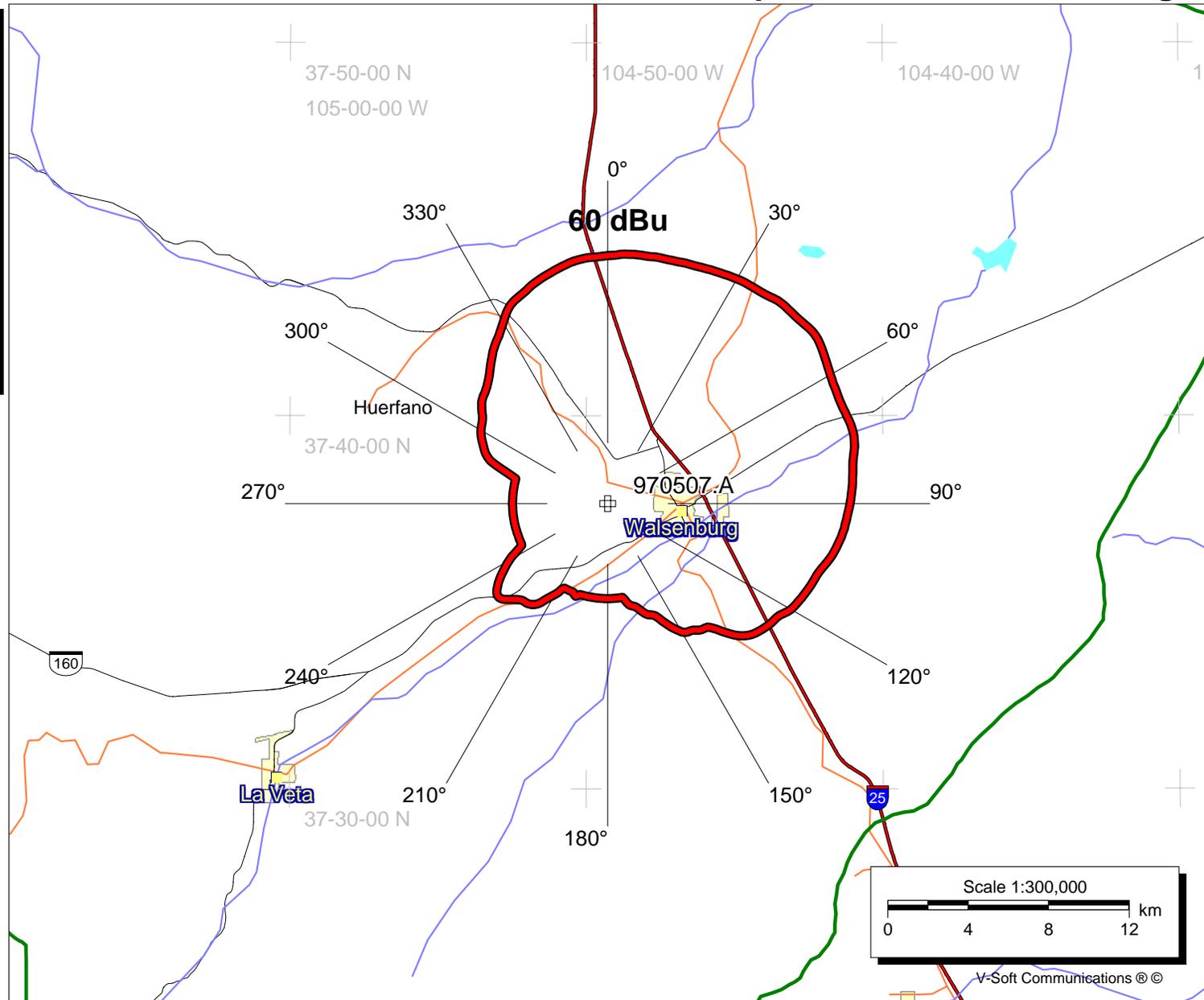
N. Lat. 37 37 39
 W. Lng. 104 49 17

Proposed Translator Coverage

970507.A
BPFT19970905TA
Latitude: 37-37-39 N
Longitude: 104-49-17 W
ERP: 0.05 kW
Channel: 234
Frequency: 94.7 MHz
AMSL Height: 2065.0 m
Elevation: 2059.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Contour

Pop = 4,766
Area = 275.4 sq km

August 17, 2003



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 the Colorado College;

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 August 17, 2003