

EXHIBIT #1
ENGINEERING STATEMENT

The University of Wyoming
Minor Modification to Construction Permit
KUWY
BPED-19980826MA
Laramie, Wyoming

January 2008

CH 203A

0.134 kW H + V

This engineering statement supports application filed by the University of Wyoming to make a minor modification to construction permit BPED-19980826MA for KUWY, a new NCE FM station to serve Laramie, Wyoming.

The applicant proposes to decrease the antenna height above ground, mean sea level and average terrain, and to increase effective radiated power. No other changes are being proposed at this time.

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 8 evenly spaced radials were used to determine the antenna height above average terrain. The U.S.G.S. 03 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 #1 of Exhibit #14. A tabular listing of the distance to the 60 dBu contour can be found on page #2 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 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 protection to the only television channel six stations within the 246 kilometer cut-off distance for an FM station on Channel 203. The study power used was $0.13735 \text{ kW} (0.134 \text{ kW H} + 0.134 \text{ kW V}/40)^1$.

The applicant proposed the use of an existing unregistered tower, also the site of station KUWR. This tower was constructed prior to April 2001, so further environmental testing was deemed unnecessary.

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

Page #3 of Exhibit #1 is a statement of the qualifications of the preparer.

Kate Michler

¹ Section 73.525(e)(4). Study ERP = $H + V/40$, when outside city of 50,000 or more.

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 ten 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 The University of Wyoming, 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 January 18, 2008