



## ENGINEERING STATEMENT

This Engineering Statement and attached exhibit have been prepared on behalf of the Board of Regents of the University of Wisconsin System, licensee of NCE-FM broadcast station WSUM, Channel 219A, in Madison, Wisconsin, by B. Benjamin Evans, P.E. of Evans Associates, Consulting Communications Engineers in Thiensville, Wisconsin. This exhibit is in support of an amendment to a pending application by WSUM (FCC File No. BPED-20021202AAP) to increase ERP and to change the directional antenna pattern limits.

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The purpose of this amendment is to response to an Audio Division staff question as to whether the WSUM proposal would cover at least 50% of the City of Madison with the predicted 60 dBu contour, as required in §73.515 of the FCC Rules.

Attached is a map showing the city limits of Madison, along with the pertinent portion of the proposed WSUM 60 dBu contour. This contour was calculated in accordance with §73.313 of the FCC Rules. The 60 dBu contour covers 51.8% of the area within the Madison city limits. Thus, the WSUM application is in compliance with §73.515 of the FCC Rules.

This statement and attached exhibit are true and accurate to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read "B. Benjamin Evans".

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B. Benjamin Evans, P.E.

March 21, 2003



# WSUM(FM) Proposed City-of-License Coverage - Madison, WI

## WSUM.A

BPED20021202A.AP  
Latitude: 42-54-16 N  
Longitude: 089-33-20 W  
ERP: 5.50 kW  
EIRP: 9.02 kW  
Channel: 219  
Frequency: 91.7 MHz  
AMSL Height: 404.0 m  
Elevation: 284.98 m  
HAAT: 103.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: FCC

