

**Fair Distribution of Service
Second Noncommercial Educational Aural Service**

**To Supplement the Pending Application
BPED960325MD**

January, 2005

Exhibit 11 page 4 is a map depicting first and second aural service pursuant to 47 U.S.C. Section 307(b) and the technical parameters proposed by the applicant. The population within the 60 dBu service contour was determined to be 73,229 people¹. The area within the proposed one mV/m contour is 3,151.77 square kilometers². On the original application the area within the proposed one mV/m service contour is listed as 3,114.2 square kilometers. The difference between original application and this minor amendment's coverage area figure is due to the original application being prepared using Radio-Soft 30 second terrain data, and thus was not as accurate as the V-Soft 3 second terrain data

Exhibit 11 page 3 shows a print-out of the V-Soft population Report within the proposed 60 dBu contour. The population in each contour overlap area was calculated using the same method as the proposed station. As shown in Exhibit 11 page 2, the areas of first service and third service or above were subtracted from the whole, leaving 19,623 people and 644.81 sq km receiving second service from the proposed station, or 26.8% of the people residing in the coverage area. The 60 dBu service contours of all existing NCE FM stations that overlap the proposed facility are shown on the map in Exhibit 10 page 4.

The WSU proposal's 60 dBu (1 mV/m) service contour provides second service to 19,623 people, which is greater than 10 percent ($10\% = 7,323$) of the people residing therein, thus WSU's proposal exceeds the percentage requirements of 47 U.S.C. Section 307(b).

¹ Population served based on the most recent (2000) census block data from the United States Census Bureau using the centroid method (PL-94-171).

² This figure was determined using numerical calculus. The distance to the one mV/m signal contour along each of 360 evenly spaced radial azimuths was squared and then the average of the sum of these distances was calculated. The resulting average radius squared was then multiplied by π to determine the area within the contour.

Washington State University
BPED960325MD at Chehalis, WA
Second Non-Commercial Service Calculations

Second Non-Commercial Service	Population	Sq km Area
WSU Proposed 60 dBu Coverage	73,229	3,151.77
WSU Proposed First Service	-19,338	-1,978.62
KAOS-FM Overlap	-	-6.54
KCED Overlap	-31,922	-324.25
KJVH/KZOE-FM Overlap	-2,346	-197.55
Total WSU Second Service	19,623	644.81

V-Soft Communications Population Report

Contour Parameters:

Type: FCC Contour

F(50-50) Cutoff: 60.00 dBu

Population Database: 2000 US Census

Transmitter Information:

Call Letters: WSU PROPOSED

Latitude: 46-33-18 N

Longitude: 123-03-25 W

Power: 1.00 kW

Channel: 205

Frequency: 88.9 MHz

AMSL Height: 475.0 m

Elevation: 430.56 m

Horiz. Antenna Pattern: Omni

Total Population Within Contour: 73,229

Total Area Within Contour: 3151.77 sq. km

BPED960325MD
WSU Proposed
Latitude: 46-33-18 N
Longitude: 123-03-25 W
Power: 1.00 kW
Frequency: 88.9 MHz
Channel: 205
AMSL Height: 475 m
Elevation: 430.56 m

- KPLU
- KAOS
- KJVH
- KACS
- KZOE
- KCED
- KOPB
- KMUN
- WSU PROPOSED
- AP205

