

Engineering Exhibit  
New Station at Chehalis, WA  
December 9, 2004

This instant application is for the Chehalis, WA new station awarded by auction 37, and seeks not only initial construction permit, but a one-step class change from A to C3. The proposed antenna and allocation site is at the location of antenna structure number 1022698 at an elevation of 37 meters above ground level. This is the location recently vacated by station KMNT. At this proposed location the station is fully spaced 73.207 as demonstrated in Table 1

The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed antenna system is an EPA type 3, 2- bay, 0.5 wavelength spaced, "Rototiller " antenna, mounted with its center of radiation 37 meters above ground level, and will operate with an effective radiated power of 2.35 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 71 meters from the base of the tower, this proposal will contribute worst case, 11.39 microwatts per square centimeter, or 1.13 percent of the allowable ANSI limit for controlled exposure, and 5.69 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1

ComStudy 2.2 search of channel 282 (104.3 MHz Class C3)  
at 46-33-18.0 N, 123-03-27.0 W.

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KAFE	WA	BELLINGHAM	104.3	282	60000	C	LIC	236.83	237	-0.2
KMCQ	OR	THE DALLES	104.5	283	100000	C	LIC	177.02	176	1
KFIS	OR	SCAPPOOSE	104.1	281	2450	C2	CP	121.79	117	4.8
KFIS	OR	SCAPPOOSE	104.1	281	6900	C2	LIC	121.79	117	4.8
KDUX-FM	WA	ABERDEEN	104.7	284	31000	C2	LIC	66.42	56	10.4
KMCQ	WA	COVINGTON	104.5	283	25000	C3	APP	112.62	99	13.6
KDUX-FM	WA	ABERDEEN	104.7	284	1000	C2	LIC	73.14	56	17.1