

KLEN(FM)
Cheyenne, WY
FID No.: 5991

KLEN(FM) seeks to relocate to an antenna location 77 meters above ground level upon a tower described by antenna structure registration number 1036799, which is an element of the nighttime array of standard broadcast station KGAB, Orchard Valley, WY.

As demonstrated by the spacing study below, this proposal is fully spaced 73.207 to all known applications, allocations, and facilities with the exception of a KPRB application, and the KKHI application and allocation. It is proposed to utilize Section 73.215 spacing to KPRB and KKHI. No prohibited contour overlap will exist as demonstrated in Figure 1. Both the KPRB and KKHI applications are utilizing 73.215 spacing.

ComStudy 2.2 search of channel 292 (106.3 MHz Class A)
at 41-03-09.0 N, 104-49-55.0 W.

Callsign	State	City	Chnl	ERP_w	Class	Status	Distance_km	Sep	Clr
KPRB	CO	BRUSH	292	15000	C3	APP	133.55	142	-8.4
KKHI	CO	KREMMLING	292	50000	C2	APP	157.71	166	-8.3
KKHI	CO	KREMMLING	292	0	C2	RSV	162.92	166	-3.1
KKHI	CO	KREMMLING	292	0	C2	RSV	162.92	166	-3.1
KPRB	CO	BRUSH	292	25000	C3	APP	149.13	142	7.1
KPRB	CO	BRUSH	292	0	C3	RSV	149.13	142	7.1
KPRB	CO	BRUSH	292	0	C3	RSV	149.13	142	7.1
KPRB	CO	BRUSH	292	25000	C3	APP	149.13	142	7.1
KPRB	CO	BRUSH	292	3000	A	LIC	133.55	115	18.6
	WY	WHEATLAND	293	0	C1	APP	152.85	133	19.8
DKJYY	CO	BRUSH	292	0	A	USE	135.12	115	20.1
KKHI	CO	KREMMLING	292	0	C3	USE	169.49	142	27.5
KKHI	CO	KREMMLING	292	2350	C3	LIC	179.74	142	37.7

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, 6- bay, full wave spaced "Rototiller" antenna, mounted with its center of radiation 77 meters above ground level, and will operate with an effective radiated power of 6.0 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 23.1 meters from the base of the tower, this proposal will contribute worst case, 5.06 microwatts per square centimeter, or 0.5 percent of the allowable ANSI limit for controlled exposure, and 2.5 percent of the allowable limit for uncontrolled exposure. The tower is an element in the night array of KGAB, which radiates less than 500 watts on 650 KHz, and is effectively fenced at a distance

greater than 1 meter from the tower base in accordance with Supplement A Edition 97-01 to OET Bulletin Number 65. 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

