

**Comprehensive Engineering Exhibit**  
**Minor Modification Application**  
BPH-20070226ABKI  
March 2008

By this application it is sought to modify the permit of KJDX, BPH-20070226ABI to specify a new channel and class by the “one step” procedure, also to modify the antenna height, power and location. This action is contingent upon application of station KOSO, Patterson, CA for a change in channel, class, and location.

This application seeks to modify the permit of KJDX from Channel 227A to Channel 226B1 via the one step method. Attached is a spacing study demonstrating compliance with Section 73.207 at the allocation, as well as a study from the antenna location. Both locations have mutual exclusivity with the current KJDX permit. The proposed allocation location provides the requisite service to the principal community as demonstrated in the attached map.

From the antenna location this proposal will be short spaced to station KURK, Reno, NV. Spacing in accordance with Section 73.215 is requested. Attached is an exhibit demonstrating no prohibited contour overlap will be caused by or to the proposed facility. The proposed antenna will be non-directional and located upon the same support tower as station KCCL Placerville, CA, a structure that does not require registration. At the requested height of 45 meters above ground level, from this location the height above average terrain will be 111 meters. The FCC web tool “FMpower” has been used to determine the maximum allowed power from this proposed B1 facility to be 20.50 kW.

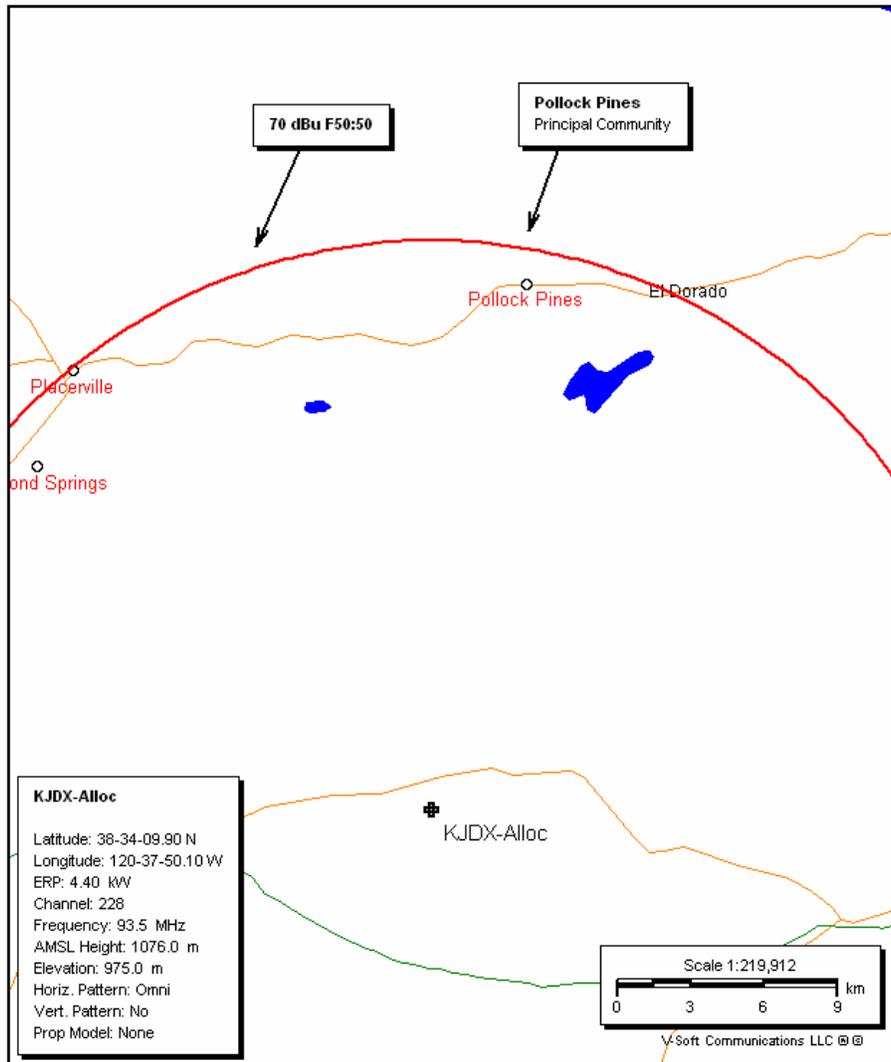
The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, “Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation.”

The proposed antenna system is an EPA type 3, 6- bay, half wave spaced, “Roto- tiller “ antenna, mounted with its center of radiation 45 meters above ground level, and will operate with an effective radiated power of 20.5 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 257 meters from the base of the tower, this proposal will contribute worst case, 8.6 microwatts per square centimeter, or 0.86 percent of the allowable ANSI limit for controlled exposure, and 4.3 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. 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.

### Principal Community Coverage from Allocation Site,.



**Spacing Study at "Allocation" Location:**

ComStudy 2.2 search of channel 226 (93.1 MHz Class B1) at 38-34-09.9 N, 120-37-50.1 W.

Callsign	City	Freq	Chanl	ERP_w	Class	Status	Dista_km	Sep	Clr
KOSO	PATTERSON POLLOCK	93.1	226	3200	B	LIC	105.66	211	-105.3
KJDX	PINES	93.3	227	2050	A	CP	21.82	96	-74.2
KURK	RENO	92.9	225	50000	C2	LIC	133.55	134	-0.4
KURK	RENO	92.9	225	48000	C2	LIC	133.55	134	-0.4
KQJK	ROSEVILLE	93.7	229	19000	B1	LIC	54.19	50	4.2
KQJK	ROSEVILLE	93.7	229	25000	B1	LIC	54.17	50	4.2
KGBY	SACRAMENTO	92.5	223	50000	B	LIC	75.16	71	4.2
KYRR-LP	NEVADA CITY SAN	93.3	227	100	LP100	LIC	87.13	74	13.1
KRZZ	FRANCISCO SAN	93.3	227	42000	B	LIC	160.67	145	15.7
KRZZ	FRANCISCO	93.3	227	50000	B	LIC	160.67	145	15.7
KJDX	SUSANVILLE	93.3	227	100000	C	LIC	209.25	193	16.3
KZSQ-FM	SONORA	92.7	224	380	A	LIC	66.56	48	18.6
KZSQ-FM	SONORA	92.7	224	0	A	USE	66.84	48	18.8
KKBN	TWAIN HARTE	93.5	228	400	A	LIC	66.56	48	18.6
KZSQ-FM	SONORA	92.7	224	390	A	LIC	66.55	48	18.6
KKBN	TWAIN HARTE	93.5	228	400	A	LIC	66.56	48	18.6
KOSO- ch225a	PATTERSON	92.9	225	50000	A	LIC	117.84	96	21.8 <sup>1</sup>
NEW	PLACERVILLE	103.9	280	10	D	APP	21.86	0	21.9
KYLO-LP	WOODLAND SAN	93.3	227	100	LP100	LIC	100.93	74	26.9
KRZZ	FRANCISCO	93.3	227	33000	B	LIC	181.27	145	36.3

**Spacing Study at "Antenna" Location:**

ComStudy 2.2 search of channel 226 (93.1 MHz Class B1) at 38-38-10.5 N, 120-38-14.0 W.

Callsign	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KOSO	PATTERSON POLLOCK	93.1	226	3200	B	LIC	111.99	211	-99.0
KJDX	PINES	93.3	227	2050	A	CP	15.2	96	-80.8
KURK	RENO	92.9	225	50000	C2	LIC	127.66	134	-6.3
KURK	RENO	92.9	225	48000	C2	LIC	127.66	134	-6.3
KQJK	ROSEVILLE	93.7	229	25000	B1	LIC	51.47	50	1.5
KQJK	ROSEVILLE	93.7	229	19000	B1	LIC	51.49	50	1.5
KGBY	SACRAMENTO	92.5	223	50000	B	LIC	73.41	71	2.4
KYRR-LP	NEVADA CITY	93.3	227	100	LP100	LIC	79.91	74	5.9
KJDX	SUSANVILLE	93.3	227	100000	C	LIC	201.85	193	8.9
NEW	PLACERVILLE SAN	103.9	280	10	D	APP	16.45	0	16.5
KRZZ	FRANCISCO SAN	93.3	227	50000	B	LIC	164.61	145	19.6
KRZZ	FRANCISCO	93.3	227	42000	B	LIC	164.61	145	19.6
KKBN	TWAIN HARTE	93.5	228	400	A	LIC	73.73	48	25.7
KKBN	TWAIN HARTE	93.5	228	400	A	LIC	73.73	48	25.7
KZSQ-FM	SONORA	92.7	224	390	A	LIC	73.72	48	25.7
KYLO-LP	WOODLAND	93.3	227	100	LP100	LIC	99.57	74	25.6
KZSQ-FM	SONORA	92.7	224	380	A	LIC	73.73	48	25.7

<sup>1</sup> Modified KOSO pursuant to contingent filed application.

# 73.215 Map

