

## **KFSO-FM VISALIA, CALIFORNIA**

### **APPLICATION FOR MINOR CHANGE**

This minor change application seeks only a change in antenna type and mounting height to accommodate the relocation of co-owned stations KBOS-FM and KSOF(FM) to a new shared antenna upon the existing KFSO-FM tower which was not as damaged at other towers at this communications site by the "KNP Complex Fire" which overran the site in the fall of 2021.

Stations KSOF(FM) and KBOS-FM will be filing related applications to relocate to this new shared antenna. The facility is fully spaced now and will remain that way following this modification.

The supporting tower does not require registration and has been determined by professional survey to be located at latitude 36°38'08.48" N and longitude 118°56'35.54" W, (NAD 83), and the site elevation is 5109.8 feet (NGVD 29). The total above ground height of the tower is 126.1 feet.

The shared antenna is to be mounted 33 meters above ground with a center of radiation at 1,590.4 meters above mean sea level. Utilizing FCC provided online tools the HAAT has been determined as 260 meters and that an allowable effective radiated power for a Class B facility at this height is 17.0 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 3 stations (KBOS-FM, KFSO-FM, and KSOF(FM)) will each operate with 17 kW Effective radiated Power ("ERP") from shared antenna system which is an EPA type 3, 8- bay, half wave spaced, "Rototiller" antenna, mounted with its center of radiation 33 meters above ground level, and operates with a 3 station combined effective radiated power of 51.0 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 18.4 meters from the base of the tower, this proposal will contribute worst case, 9.9 microwatts per square centimeter, or 0.99 percent of the allowable ANSI limit for controlled exposure, and 4.95 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 facility 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-

## Spacing Study:

### KFSO-PRP

REFERENCE  
36 38 08.50 N.  
118 56 35.50 W.

CLASS = B  
Current Spacings to 3rd Adj.

DISPLAY DATES  
DATA 02-09-22  
SEARCH 02-10-22

----- Channel 225 - 92.9 MHz -----

Call	Channel	Location	Azi	Dist	FCC	Margin
KFSO-FM	LIC 225B	Visalia	CA 0.0	0.00	240.5	-240.5
KCFZ-LP	LIC 227L1	Fresno	CA 279.1	67.92	66.5	1.4
DKQQH	APP 224A	Wasco	CA 197.6	115.31	112.5	2.8
NEW	CP -N 228A	Earlimart	CA 180.9	72.83	68.5	4.3
KFGD-LP	LIC 223L1	Fresno	CA 284.0	70.88	66.5	4.4
KSRW	LIC 223B	Independence	CA 62.3	82.56	73.5	9.1
DKQQH	APP 224A	Wasco	CA 198.4	123.85	112.5	11.4
KKXX-FM	LIC-N 226A	Shafter	CA 183.4	129.30	112.5	16.8
KGAR-LP	LIC 227L1	Lemoore	CA 243.6	83.88	66.5	17.4
KUTM	LIC-Z 224A	Kerman	CA 257.5	139.61	112.5	27.1
KRHV	LIC 227B	Big Pine	CA 37.6	109.45	73.5	36.0
KOSO	LIC 225A	Patterson	CA 300.7	215.62	177.5	38.1
KZIQ-FM	LIC-N 224A	Ridgecrest	CA 133.8	162.72	112.5	50.2
KFBT	LIC 279B	Hanford	CA 263.0	73.10	19.5	53.6
KNTO	LIC 227A	Chowchilla	CA 300.4	129.23	68.5	60.7
KLPC-LP	LIC 278L1	Lone Pine	CA 92.1	79.16	11.5	67.7
KJEE	LIC 225A	Montecito	CA 195.6	249.79	177.5	72.3
K222DH	LIC 222D	Delano	CA 197.3	94.07	11.5	82.6
KZSQ-FM	LIC 224A	Sonora	CA 321.0	197.60	112.5	85.1
KMYX-FM	LIC 223A	Arvin	CA 172.3	161.32	68.5	92.8
K279CZ	LIC-D 279D	Lake Isabella	CA 161.5	108.80	14.5	94.3
KLRH	LIC 225C2	Reno	NV 347.3	335.82	240.5	95.3
K228GB	LIC-D 228D	Lake Isabella	CA 161.5	108.80	11.5	97.3
KMZR	LIC-Z 223A	Atwater	CA 296.0	166.07	68.5	97.6
KXSM	LIC-N 226A	Chualar	CA 265.4	211.89	112.5	99.4
K223BF	LIC-D 223D	Mammoth Mountain	CA 356.6	111.30	11.5	99.8
KYMT	LIC 226C	Las Vegas	NV 102.6	318.02	216.5	101.5
AL25076	ALO-D 224A	Tonopah.	NV 43.1	220.12	112.5	107.6
DKHWK	ALO 224A	Tonopah	NV 43.1	220.65	112.5	108.2
KCBS-FM	LIC 226B	Los Angeles	CA 163.3	278.15	168.5	109.7
KTOM-FM	LIC 224B1	Marina	CA 268.8	254.83	144.5	110.3
K225BQ	LIC 225D	Santa Margarita	CA 227.9	209.43	90.5	118.9

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All separation margins include rounding