

**Family Stations, Inc. – Facility ID 20760, K220EY, Porterville, CA**  
**Minor Change (Displacement Application) to Channel 216 at 0.010 KW ERP.**

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The applicant is proposing a displacement application due to prohibited interference created by licensed station on Channel 220 for co-channel Facility ID 174791, KPSV, Tulare, CA. The applicant is proposing Channel 216 as the displacement channel, since all first, second and third adjacent and intermediate-frequency channels would not allow the applicants translator to minor change from the existing service location and would not comply with 73.1204 with respect to interference overlap.

**Displacement Channel Studies**

Below are the channel studies for each first, second and third adjacent channel and intermediate frequency (I.F.) facilities showing that no minor change channel is available. Since the Audio Division Staff policy is not to grant cross-band (reserved to non-reserved) minor changes, studies for Channel 221 and up have been omitted (with the exception of Intermediate Frequency channels).

**K220EY, Porterville, CA – Channel 217**

ComStudy 2.2 search of channel 217 (91.3 MHz Class D) at 36-17-06.8 N, 118-50-22.3 W.

<u>CALL</u>	<u>CITY</u>	<u>ST CHN CL</u>	<u>DIST</u>	<u>SEP</u>	<u>BRNG</u>	<u>CLEARANCE</u>
KSVJ	FRESNO	CA 218 B	40.19	0.00	346.6	-25.28 dB
KSVJ	FRESNO	CA 218 B	40.19	0.00	346.6	-23.43 dB
KFRB	BAKERSFIELD	CA 217 B	94.43	0.00	174.6	4.31 dB
KLVY	FAIRMEAD	CA 216 B	119.83	0.00	321.6	15.10 dB
NCE-APP	COALINGA	CA 217 A	140.43	0.00	271.3	16.22 dB
K217EQ	COALINGA	CA 217 D	140.16	0.00	271.4	17.38 dB
KPSV-FM	TULARE	CA 220 B1	68.99	0.00	245.4	19.81 dB
KDOX	BIG PINE	CA 217 B	137.91	0.00	24.7	20.80 dB
K217DA	RIDGECREST	CA 217 D	136.40	0.00	130.8	23.63 dB

**K220EY, Porterville, CA – Channel 218**

ComStudy 2.2 search of channel 218 (91.5 MHz Class D) at 36-17-06.8 N, 118-50-22.3 W.

<u>CALL</u>	<u>CITY</u>	<u>ST CHN CL</u>	<u>DIST</u>	<u>SEP</u>	<u>BRNG</u>	<u>CLEARANCE</u>
KSVJ	FRESNO	CA 218 B	40.19	0.00	346.6	-55.24 dB
KSVJ	FRESNO	CA 218 B	40.19	0.00	346.6	-39.19 dB
K219LN	KERNVILLE	CA 219 D	69.07	0.00	158.6	11.57 dB
KFRB	BAKERSFIELD	CA 217 B	94.43	0.00	174.6	18.31 dB

KRDA	CLOVIS	CA 221 B	119.83	0.00	321.6	18.46 dB
KFHL	WASCO	CA 219 A	102.91	0.00	200.3	19.13 dB
KPSV-FM	TULARE	CA 220 B1	68.99	0.00	245.4	19.81 dB
K218DU	RIDGECREST	CA 218 D	124.61	0.00	125.8	24.77 dB

### **K220EY, Porterville, CA – Channel 219**

ComStudy 2.2 search of channel 219 (91.7 MHz Class D) at 36-17-06.8 N, 118-50-22.3 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KSJV	FRESNO	CA 218 B	40.19	0.00	346.6	-25.28 dB
KSJV	FRESNO	CA 218 B	40.19	0.00	346.6	-23.43 dB
K219LN	KERNVILLE	CA 219 D	69.07	0.00	158.6	-7.12 dB
KPSV-FM	TULARE	CA 220 B1	68.99	0.00	245.4	4.42 dB
KFHL	WASCO	CA 219 A	102.91	0.00	200.3	5.13 dB
KPSV-FM	TULARE	CA 220 B1	45.67	0.00	259.2	5.61 dB
KRDA	CLOVIS	CA 221 B	119.83	0.00	321.6	18.46 dB
K219AO	FAIRMONT, ETC.	CA 219 D	142.83	0.00	168.1	18.90 dB
K222DH	DELANO	CA 222 D	63.15	0.00	216.2	21.88 dB
K222DH	DELANO	CA 222 D	63.15	0.00	216.2	21.88 dB
KNBX	SAN ARDO	CA 219 B	198.16	0.00	259.8	22.09 dB

### **K220EY, Porterville, CA – Channel 220**

ComStudy 2.2 search of channel 220 (91.9 MHz Class D) at 36-17-06.8 N, 118-50-22.3 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KPSV-FM	TULARE	CA 220 B1	68.99	0.00	245.4	-54.94 dB
KSJV	FRESNO	CA 218 B	40.19	0.00	346.6	-16.78 dB
KPSV-FM	TULARE	CA 220 B1	45.67	0.00	259.2	-8.39 dB
KSJV	FRESNO	CA 218 B	40.19	0.00	346.6	-0.20 dB
KRDA	CLOVIS	CA 221 B	119.83	0.00	321.6	9.18 dB
KSRW	INDEPENDENCE	CA 223 B	100.12	0.00	39.6	9.32 dB
KWTD	RIDGECREST	CA 220 B	136.46	0.00	130.9	10.63 dB
K219LN	KERNVILLE	CA 219 D	69.07	0.00	158.6	11.57 dB
KQKZ	BAKERSFIELD	CA 221 A	88.73	0.00	182.9	13.02 dB
KFHL	WASCO	CA 219 A	102.91	0.00	200.3	19.13 dB
K222DH	DELANO	CA 222 D	63.15	0.00	216.2	21.88 dB
K222DH	DELANO	CA 222 D	63.15	0.00	216.2	21.88 dB
KCSB-FM	SANTA BARBARA	CA 220 B	220.15	0.00	207.7	29.69 dB

### **K220EY, Porterville, CA – Channel 273**

ComStudy 2.2 search of channel 273 (102.5 MHz Class D) at 36-17-06.8 N, 118-50-22.3 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KBLO	CORCORAN	CA 272 B1	51.72	0.00	257.6	-22.05 dB
KHGE	FRESNO	CA 274 B	84.30	0.00	314.9	-9.60 dB
KCNQ	KERNVILLE	CA 273 A	81.95	0.00	153.8	-0.82 dB
K273CB	BAKERSFIELD	CA 273 D	88.76	0.00	182.9	6.18 dB
KLBN	FRESNO	CA 270 B	102.20	0.00	329.1	12.42 dB
KLBN	FRESNO	CA 270 B	102.40	0.00	329.1	16.36 dB
KSNI-FM	SANTA MARIA	CA 273 B	214.37	0.00	221.7	18.20 dB
KIWI	MCFARLAND	CA 275 B1	132.70	0.00	216.4	20.89 dB
KDON-FM	SALINAS	CA 273 B	244.18	0.00	283.2	21.60 dB
K272GD	SOUTH FRESNO	CA 272 D	102.50	0.00	304.2	26.18 dB
K272GD	SOUTH FRESNO	CA 272 D	106.10	0.00	305.7	27.22 dB

#### **K220EY, Porterville, CA – Channel 274**

ComStudy 2.2 search of channel 274 (102.7 MHz Class D) at 36-17-06.8 N, 118-50-22.3 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KHGE	FRESNO	CA 274 B	84.30	0.00	314.9	-37.28 dB
KBLO	CORCORAN	CA 272 B1	51.72	0.00	257.6	3.11 dB
KIWI	MCFARLAND	CA 275 B1	132.70	0.00	216.4	7.26 dB
KCNQ	KERNVILLE	CA 273 A	81.95	0.00	153.8	13.18 dB
K273CB	BAKERSFIELD	CA 273 D	88.76	0.00	182.9	20.18 dB
KIIS-FM	LOS ANGELES	CA 274 B	238.96	0.00	162.7	22.14 dB
KIIS-FM	LOS ANGELES	CA 274 B	238.96	0.00	162.7	22.10 dB
KIIS-FM	LOS ANGELES	CA 274 B	238.14	0.00	162.8	23.22 dB
KRUZ	SANTA BARBARA	CA 277 B	220.24	0.00	207.7	25.84 dB
KIIS-FM	LOS ANGELES	CA 274 B	238.96	0.00	162.7	26.43 dB
KIIS-FM	LOS ANGELES	CA 274 B	243.76	0.00	170.3	27.79 dB

#### **Second-Adjacent Channel Overlap Acknowledgement and Non-interference Showing**

The applicant acknowledges second-adjacent-channel overlap with FCC Facility ID 21210, KLXY, Woodlake, CA. The amount of signal from KLXY arriving at the applicant's proposed transmitter site is 130 dBu. Using the 40 dB Undesired-to-Desired ratio method for determining second-adjacent-channel interference, the pertinent interfering contour is 170 dBu. According to the FCC online computer program "FM and TV Propagation Curves Calculations", the interfering contour extends less than 1 meter from the antenna location proposed in the instant application. Since the applicant has specified an antenna radiation center above ground level of 18 meters and the distance

to the interfering contour is less than 1 meter, this application is compliant with 47 CFR Section 74.1204 with respect to second-adjacent-channel interference to KLXY.

The applicant acknowledges second-adjacent-channel overlap with FCC Facility ID 21210, KLXY, Woodlake, CA (Construction Permit 0000216517). The amount of signal from KLXY CP Site arriving at the applicant's proposed transmitter site is 130 dBu. Using the 40 dB Undesired-to-Desired ratio method for determining second-adjacent-channel interference, the pertinent interfering contour is 170 dBu. According to the FCC online computer program "FM and TV Propagation Curves Calculations", the interfering contour extends less than 1 meter from the antenna location proposed in the instant application. Since the applicant has specified an antenna radiation center above ground level of 18 meters and the distance to the interfering contour is less than 1 meter, this application is compliant with 47 CFR Section 74.1204 with respect to second-adjacent-channel interference to KLXY.

The applicant acknowledges second-adjacent-channel overlap with FCC Facility ID 54496, KSJV, Fresno, CA. The amount of signal from KSJV arriving at the applicant's proposed transmitter site is 76.5 dBu. Using the 40 dB Undesired-to-Desired ratio method for determining second-adjacent-channel interference, the pertinent interfering contour is 116.5 dBu. According to the FCC online computer program "FM and TV Propagation Curves Calculations", the interfering contour extends 33 meters from the antenna location proposed in the instant application. The applicant has attached an aerial photograph exhibit showing the interfering contour and showing that the entire area within the interfering contour is completely absent of population. Any structures in the vicinity of the tower site are unmanned equipment shelters related to the tower site use. Since the map shows that there is no population in the interfering contour, this application is compliant with 47 CFR Section 74.1204 with respect to second-adjacent-channel interference.

### **Environmental Considerations**

The applicant proposes 10 watts from 18 meters above ground level with an antenna mounted on an existing tower. According to the FCC Computer program, FM Model, and using the specified antenna, height and power levels, the maximum RF radiation figure reaching 2 meters above ground level is 1.57 microwatts per centimeter squared. This is clearly a de minimis contribution to the aggregate totals specified in OET Bulletin 65 and subsequent relevant documents.

- END OF NARRATIVE EXHIBIT -



# Proposed K220EY Porterville CA

Aerial photo showing no population within 33 meter radius of proposed site.

## Legend

- Line Measure
- Tower



300 ft