

CONTOUR OVERLAP AND
LONGLY-RICE INTERFERENCE STUDIES
PROPOSED K53DT
CHANNEL 27 – MONTEREY, CALIFORNIA

We conducted a computer analysis of the interference situation for the proposed facility, the results of which are shown in Exhibit D-2. The study is based on contour protection requirements of Sections 74.705, 74.706, and 74.707 of the FCC's Rules with respect to analog full-power, digital full-power, and low power television stations, respectively. It concludes that the facility proposed herein meets these requirements except to six stations: KTSF-DT, Channel 27 in San Francisco, California; KEYT-DT, Channel 27 in Santa Barbara, California; K27GZ, Channel 27 in Mariposa, California; KGMC-LP, Channel 27 in Coalinga, California; KREN-TV, Channel 27 in Reno, Nevada; and, KEXT-CA, Channel 27 in Modesto, California.

We then conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to these facilities of concern. The software utilizes a 2-square kilometer cell size (except where noted), calculates signal strength at 1.0 kilometer increments along each radial studied, and employs the 1990 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than Trinity's proposed K53DT) already is predicted to exist (also known as "masking"). The results of these studies are provided in Exhibit D-3. They conclude that

the facility proposed herein causes no significant new interference to any of the potentially affected stations.

As a result, waivers of Section 74.705 of the Commission's Rules with respect to interference to KREN-TV, Section 74.706 with regard to KTSF-DT and KEYT-DT, and Section 74.707 with respect to K27GZ, KGMC-LP, and KEXT-CA, are requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED K53DT
 CH. 27 - MONTEREY CA

REFERENCE
 36 33 09 N
 121 47 17 W

LPTV Pwr = 22.1 kW, HAMS L COR= 393 M

DISPLAY DATES
 DATA 06-28-03
 SEARCH 07-03-03

..... Channel 27+, 548 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
KTSF-D CPM	27	San Francisco	CA 138.35	335.8	> 352.14	-213.79
KTSF-D CP	27	San Francisco	CA 138.41	335.8	> 343.37	-204.96
KTSF-D ST	27	San Francisco	CA 138.41	335.8	> 343.37	-204.96
KEYT-D CPM	27	Santa Barbara	CA 279.51	143.2	> 386.75	-107.24
KGMC-L LI	27-	Coalinga	CA 127.28	102.1	> 142.03	-14.75
K27GZ LI	27+	Mariposa	CA 190.84	54.6	> 205.51	-14.67
KRENTV CP	27+	Reno	NV 349.19	28.0	> 361.09	-11.90
KRENTV LI	27+	Reno	NV 349.19	28.0	> 356.32	-7.13
KEXT-C LI	27Z	Modesto	CA 110.05	20.5	> 116.30	-6.25
K27EI LI	27N	Santa Maria	CA 232.85	141.1	> 222.64	10.21
KTSF LI	26-	San Francisco	CA 138.35	335.8	> 112.58	25.77
KBIT-L AP	28+	San Francisco, E	CA 104.06	356.2	> 064.72	39.34
KFRE-C CPM	27+	Tulare	CA 266.14	95.5	> 220.62	45.52
NEW AP	26Z	Glen Arbor	CA 62.53	336.2	> 015.43	47.10
KBIT-C LI	28+	San Francisco, E	CA 104.06	356.2	> 056.17	47.89

INTERFERENCE SUMMARY
 PROPOSED K53DT
 CHANNEL 27 – MONTEREY, CALIFORNIA

<u>Call Sign</u>	<u>Status</u>	<u>City, State</u>	<u>Ch.</u>	<u>Longley-Rice Service Population</u>	<u>Unmasked Interference From Proposed Facility</u>	<u>%</u>
KTSF-DT BMPCDT-20000428AAT	CPM	San Francisco, CA	27	5,564,911	18,882	0.3
KTSF-DT BDSTA-20020531ABH	STA	San Francisco, CA	27	5,474,691	15,066	0.3
KTSF-DT BXPCDT-20020415AAQ	CP	San Francisco, CA	27	5,474,691	15,066	0.3
KEYT-DT BMPCDT-20010126ABE	CPM	Santa Barbara, CA	27	1,202,703	0	0
K27GZ BLTT-20020221AAJ	Lic.	Mariposa, CA	27	1,361	0	0
KGMC-LP BLTTL-20030512AAT	Lic.	Coalinga, CA	27	4,890	0	0
KREN-TV BPCT-19960122KE	CP	Reno, NV	27	387,769	0	0
KREN-TV BLCT-19861016KF	Lic.	Reno, NV	27	384,249	0	0
KEXT-CA BLTTA-20030123ACJ	Lic.	Modesto, CA	27	444,997	0	0