

CONTOUR OVERLAP AND
LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED K59DJ
CHANNEL 38 – EUGENE, OREGON

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: KDRV-DT, Channel 38 in Medford, Oregon; K38CZ, Channel 38 in Lincoln City, Oregon; KOAC-DT, Channel 39 in Corvallis, Oregon; KEVU-LP, Channel 23 in Eugene, Oregon; an application for a new LPTV station on Channel 38 in Sweet Home, Oregon; and, K63CC, Channel 38 in Madras, Oregon.

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 proposed K59DJ) 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

EXHIBIT D-1

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

As a result, waivers of Section 74.706 with regard to interference to KDRV-DT and KOAC-DT, and Section 74.707 with respect to K38CZ, KEVU-LP, the Sweet Home application, and K63CC, are requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED K59DJ
CH. 38 - EUGENE OR

REFERENCE

44 06 57 N

122 59 57 W

LPTV Pwr = 10 kW, HAMS L COR= 677 M

DISPLAY DATES

DATA 05-14-05

SEARCH 05-17-05

..... Channel 38-, 614 MHz

Call	Channel	Location		Dist	Azi	FCC	Margin
KDRV-D LI	38	Medford	OR	159.31	186.8	> 337.80	-178.49
K38CZ* LI	38N	Lincoln City/new	OR	109.66	310.9	> 210.95	-90.52
KOAC-D*LI	39	Corvallis	OR	62.25	339.6	> 120.04	-57.49
KEVU-L*LI	23-	Eugene	OR	15.65	215.4	> 052.92	-35.44
NEW* AP	38Z	Sweet Home	OR	37.77	33.8	> 065.44	-27.67
K63CC* CP	38-	Madras & Culver	OR	155.99	70.0	> 166.83	-10.36
K38DT* LI	38Z	North Lapine	OR	122.99	102.2	> 083.60	40.83
K39CL* LI	39-	Yoncalla	OR	59.17	206.4	> 025.92	46.62
KMTZ LI	23+	Coos Bay	OR	121.48	229.0	> 073.87	47.61
KNMT LI	24+	Portland	OR	157.03	7.6	> 106.17	50.86
KTNW-D LI	38	Richland	WA	376.31	52.6	> 317.60	58.71
KKEI-C*CP	38+	Portland	OR	157.60	7.2	> 091.61	65.99

* Actual radials antenna height and directional patterns used (if any)

INTERFERENCE SUMMARY
 PROPOSED K59DJ
 CHANNEL 38 – EUGENE, OREGON

<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>
KDRV-DT BLCDT-20030422AAK	Lic.	Medford, OR	38	207,202	279	0.1
K38CZ BLTT-19940131JG	Lic.	Lincoln City, OR	38	26,670	0	0
KOAC-DT BLEDT-20030227AAX	Lic.	Corvallis, OR	39	1,098,754	3,694	0.3
KEVU-LP BLTTA-20020802AAR	Lic.	Eugene, OR	23	236,061	22	0.1
New App. BNPTTL-20000829ANO	AP	Sweet Home, OR	38	8,471	0	0
K63CC BPTT-20040217AAD	CP	Madras, OR	38	6,460	0	0