

CONTOUR OVERLAP AND
LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED KTVV-LP
CHANNEL 18 – HOT SPRINGS, ARKANSAS

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: KFSM-DT, Channel 18 Fort Smith, Arkansas; K18AB, Channel 18, El Dorado, Arkansas; KYTX-DT, Channel 18, Nacogdoches, Texas; KIPB-LP, Channel 18, Pine Bluff, Arkansas; KVTN(TV), Channel 25, Pine Bluff, Arkansas; and a new Full-Service proposal on Channel 20, in Hot Springs, Arkansas.

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 KTVV-LP) 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 74.705 of the Commission's Rules with respect to interference to KVTN and the new Full-Service proposal in Hot Springs, Section 74.706 with regard to KFSM-DT and KYTX-DT, and Section 74.707 with respect to K18AB and KIPB-LP, are requested and believed to be justified based on the aforementioned Longley-Rice studies.

EXHIBIT D-2
PROPOSED KTVV-LP HOT SPRINGS - AR

REFERENCE
34 33 56 N
93 05 03 W

LPTV Pwr = 150 kW, HAMS L COR= 444 M

DISPLAY DATES
DATA 03-30-06
SEARCH 03-31-06

..... Channel 18-, 494 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
KFSM-D CPM	18	Fort Smith	AR	170.96	325.6	> 370.86 -199.90
K18AB LI	18N	El Dorado	AR	155.13	165.4	> 233.67 -78.54
KYTX-D CP	18	Nacogdoches	TX	349.00	212.7	> 393.49 -44.49
AP919 AP	20Z	Hot Springs	AR	0.00	0.0	> 032.00 -32.00
KIPB-L CP	18+	Pine Bluff	AR	105.35	111.6	> 134.46 -29.11
KVTN LI	25-	Pine Bluff	AR	95.46	92.0	> 100.00 -4.54
KVTN CP	25-	Pine Bluff	AR	95.48	91.9	> 100.00 -4.52
KPOB-D CP	18	Poplar Bluff	MO	343.96	43.0	> 340.20 3.76
AP563 AP	20Z	Hot Springs	AR	51.23	98.0	> 032.00 19.23
AP495 AP	20Z	Hot Springs	AR	55.66	110.2	> 032.00 23.66
KLRTTV LI	16-	Little Rock	AR	60.19	64.2	> 032.00 28.19
WMAVTV LI	18Z	Oxford	MS	312.03	94.7	> 255.31 56.72
K18EG LI	18+	Eureka Springs	AR	208.07	343.4	> 136.09 71.98

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

INTERFERENCE SUMMARY

PROPOSED KTVV-LP
CHANNEL 18 – HOT SPRINGS, ARKANSAS

<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>
KFSM-DT BMPCDT-20041104AMO	CPM	Fort Smith, AR	18	570,943	1,952	0.3
K18AB BLTT-1193	Lic.	El Dorado, AR	38	22,997	0	0
KYTX-DT BPCDT-19991029ACW	CP	Nacogdoches, TX	35	799,693	70	< 0.1
AP919 BPET-19960520KE	Appl.	Hot Springs, AR	35	633,700	0	0
KIPB-LP BPTTL-20050708AAX	CP	Pine Bluff, AR	35	66,753	0	0
KVTN(TV) BLCT-19881209KF	Lic.	Pine Bluff, AR	35	585,802	0	0
KVTN(TV) BPCT-20040726ADE	CP	Pine Bluff, AR	35	585,810	0	0