

CONTOUR OVERLAP AND
LONGLY-RICE INTERFERENCE STUDIES
PROPOSED K59DG
CHANNEL 28 – NEW ORLEANS, LOUISIANA

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 five stations: KATC-DT, Channel 28 in Lafayette, Louisiana; WDAM-DT, Channel 28 in Laurel, Mississippi; WVUE-DT, Channel 29 in New Orleans, Louisiana; WLAE-TV, Channel 32 in New Orleans, Louisiana; and, WGNO, Channel 26 in New Orleans, Louisiana.

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, 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 K59DG) 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.

EXHIBIT D-1

As a result, waivers of Section 74.705 of the Commission's Rules with respect to interference to WLAE-TV and WGNO, and Section 74.706 with regard to KATC-DT, WDAM-DT and WVUE-DT are requested and believed to be justified based on the aforementioned Longley-Rice studies.

EXHIBIT D-2

PROPOSED K59DG
 CH. 28 - NEW ORLEANS LA

REFERENCE
 29 55 11 N
 90 01 29 W

LPTV Pwr = 150 kW, HAMS L COR= 163 M

DISPLAY DATES
 DATA 03-26-03
 SEARCH 04-03-03

..... Channel 28-, 554 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
KATC-D*CPM	28	Lafayette	LA 222.16	282.2	> 393.35	-171.19
WDAM-D*LI	28	Laurel	MS 184.21	22.3	> 343.20	-157.48
WVUE-D*CP	29	New Orleans	LA 8.20	62.3	> 111.04	-102.84
WLAETV*LI	32+	New Orleans	LA 9.85	44.9	> 032.00	-82.38
WGNO LI	26Z	New Orleans	LA 10.02	46.3	> 032.00	-21.98
WGNO CP	26Z	New Orleans	LA 10.06	46.1	> 032.00	-21.94
WLPBTV LI	27+	Baton Rouge	LA 124.26	294.2	> 104.38	19.88

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

INTERFERENCE SUMMARY

PROPOSED K59DG
CHANNEL 28 – NEW ORLEANS, LOUISIANA

<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>
KATC-DT BMPCDT-20011023AAJ	CP	Lafayette, LA	28	1,269,641	0	0
WDAM-DT BLCDT-20020426ABB	Lic.	Laurel, MS	28	229,596	742*	0.3
WWUE-DT BPCDT-19991028AEP	CP	New Orleans, LA	29	1,677,811	0	0
WLAE-TV BLET-19840717KF	Lic.	New Orleans, LA	32	1,383,757	0	0
WGNO BLCT-19810113KE	Lic.	New Orleans, LA	26	1,404,614	0	0
WGNO BPCT-20021007AAR	CP	New Orleans, LA	26	1,434,402	0	0

*With masking from KATC-DT (BMPCDT-20011023AAJ), Channel 28 in Lafayette, Louisiana.