

CONTOUR OVERLAP AND  
LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED LPTV STATION  
CHANNEL 62 - ODESSA, TEXAS  
[AMENDMENT TO BNPTTL-20000830BOF]

We conducted a computer analysis of the interference situation for the proposed facility, the results of which are shown in Exhibit B-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 two stations: an application for a new LPTV station on Channel 47 in Odessa, Texas (BNPTTL-20000818AAO), and one for Channel 47 in Midland, Texas (BNPTTL-20000830BLC).

We then conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to these LPTV proposals. 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. The results of these studies are provided in Exhibit B-3. They conclude that the facility proposed herein causes no significant new interference to either Channel 47 proposal.

As a result, a waiver of Section 74.707 of the Commission's Rules with respect to interference to BNPTTL-20000818AAO and BNPTTL-20000830BLC is requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT B-2

PROPOSED LPTV STATION  
CH. 62 - ODESSA TX

REFERENCE

31 47 39 N  
102 35 15 W

LPTV Pwr = 20 kW, HAMS L COR= 1046 M

DISPLAY DATES

DATA 01-31-04  
SEARCH 02-05-04

..... Channel 62+, 758 MHz .....

Call	Channel	Location	Dist	Azi	FCC	Margin
NEW	AP 62+	Odessa TX	0.00	0.0	> 188.17	-188.17
NEW*	AP 47Z	Odessa TX	7.65	36.8	> 031.56	-7.94
NEW*	AP 47Z	Midland TX	43.19	41.0	> 045.33	-2.14
NEW*	AP 47Z	Midland/odessa TX	39.41	44.3	> 029.43	9.98
NEW*	AP 63+	Midland TX	43.86	39.7	> 032.10	13.63
NEW*	AP 47Z	Midland TX	44.50	66.1	> 022.92	21.58
NEW*	AP 47Z	Midland TX	44.50	66.1	> 022.92	21.58
NEW	AP 47Z	Midland TX	68.07	67.8	> 045.19	22.88
NEW	AP 47-	Midland TX	58.68	64.6	> 033.13	25.55
NEW	AP 47Z	Midland TX	60.99	72.1	> 035.04	25.95
KJTV-C	ST 62N	Lubbock TX	200.95	19.2	> 168.92	32.03
K50FG	LI 62N	Roswell NM	245.06	317.3	> 182.59	62.47

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

## INTERFERENCE SUMMARY

PROPOSED LPTV STATION  
CHANNEL 62 - ODESSA, TEXAS

[AMENDMENT TO BNPTTL-20000830BOF]

<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>
NEW-T BNPTTL-20000818AAO	Appl.	Odessa, TX	47	94,295	307	0.3
NEW-T BNPTTL-20000830BLC	Appl.	Midland, TX	47	210,919	0	0