

CONTOUR OVERLAP AND
LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED WSLF-LP
CHANNEL 44 – PORT ST. LUCIE, FLORIDA
[AMENDMENT TO BPTTL-20050503AAG]

We conducted a computer analysis of the interference situation for the proposed facility, the results of which are shown in Exhibit E-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 seven stations: WTOG(TV), Channel 44, St. Petersburg, Florida; W44AY, Channel 44, Fort Pierce, Florida; WFLX(TV), Channel 29, West Palm Beach, Florida; WTCN-CA, Channel 43, Palm Beach, Florida; and, WPPB-DT, Channel 44, Boca Raton, Florida; WSCV(TV), Channel 51, Fort Lauderdale, Florida; WXEL-TV, Channel 42 in West Palm Beach, Florida; and, WHFT-TV, Channel 45, Miami, Florida.

With respect to the WPPB-DT Construction Permit, BPEDT-19991028ACM, the permittee has a pending Petition for Rulemaking to change their present Channel 44 digital allotment in Boca Raton, Florida, to Channel 40. This instant application assumes that the Commission will grant said petition and, therefore, we ask the Commission to disregard any interference to WPPB-DT on Channel 44.

We then conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to the remaining 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 each station's protected contour where interference from another source (other than proposed WSLF-LP) already is predicted to exist (also known as "masking"). The results of these studies are provided in Exhibit E-3. It concludes that the facility proposed herein causes no new interference to any of the above stations.

As a result, a waiver of Section 74.705 of the Commission's Rules with respect to interference to WTOG, WFLX, WSCV, WXEL-TV, and WHFT-TV; and Section 74.707 with regard to W44AY and WTCN-CA are requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT E-2

PROPOSED WSLF-LP
PORT ST. LUCIE - FLA

REFERENCE
26 45 47 N
80 12 19 W

LPTV Pwr = 150 kW, HANSL COR= 105 M

DISPLAY DATES
DATA 05-05-05
SEARCH 05-09-05

..... Channel 44+, 650 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
WFLX* LI	29+	West Palm Beach	FL 20.95	190.1	> 100.11	-78.22
WPPB-D*CP	44	Boca Raton	FL 85.40	177.9	> 151.29	-65.77
WTOG* LI	44+	St. Petersburg	FL 235.78	300.7	> 284.18	-48.40
W44AY* LI	44-	Fort Pierce	FL 88.27	349.5	> 129.69	-30.11
WTCN-C*LI	43-	Palm Beach	FL 29.20	5.2	> 052.48	-23.01
WSCV LI	51Z	Fort Lauderdale	FL 86.12	179.2	> 100.00	-13.88
WXELTV LI	42+	West Palm Beach	FL 20.95	190.1	> 032.00	-11.05
WXELTV CP	42+	West Palm Beach	FL 20.95	190.1	> 032.00	-11.05
WHFTTV*LI	45+	Miami	FL 85.40	177.9	> 079.67	5.91
WHDT-L*CP	44N	Miami	FL 87.77	180.2	> 064.43	23.36
WHDT-L*LI	44N	Miami	FL 87.77	180.2	> 052.67	35.11
WTVK-D*LI	45	Naples	FL 158.07	271.3	> 112.20	70.19

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

INTERFERENCE SUMMARY
 PROPOSED WSLF-LP
 CHANNEL 44 – PORT ST. LUCIE, FLORIDA
 [AMENDMENT TO BPTTL-20050503AAG]

<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>
WTOG(TV) BLCT-19990415KI	Lic.	St. Petersburg, FL	44	3,124,015	0	0
W44AY BLTT-19931220IK	Lic.	Fort Pierce, FL	44	90,537	0	0
WTCN-CA BLTTA-20021101AAX	Lic.	Palm Beach, FL	43	412,934	0	0
WFLX(TV) BLCT-19860514KH	Lic.	West Palm Beach, FL	29	3,864,094	0	0
WSCV(TV) BLCT-20020805AAC	Lic.	Fort Lauderdale, FL	51	3,780,171	0	0
WXEL-TV BLET-19820625KF	Lic.	West Palm Beach, FL	42	2,480,903	0	0
WXEL-TV BPET-20030212AAE	CP	West Palm Beach, FL	42	3,131,281	0	0
WHFT-TV BLCT-19951209KF	Lic.	Miami, FL	45	3,724,378	6,543	0.2