

CONTOUR OVERLAP AND  
LONGLY-RICE INTERFERENCE STUDIES  
PROPOSED CLASS A STATION WFXZ-CA  
CHANNEL 24 – BOSTON, MASSACHUSETTS

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 three stations: WFXT(TV), Channel 25, Boston, Massachusetts; WUTF-DT(CP, STA, Appl.), Channel 23, Marlborough, Massachusetts; and, WVTA-DT(CPM, STA), Channel 24, Windsor, Vermont.

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 contours of the stations under study where interference from another source (other than proposed

EXHIBIT D-1

WFXZ-CA) already is predicted to exist (also known as “masking”). The results of these studies are provided in Exhibit D-3. It concludes that the facility proposed herein causes no significant interference to any of the above facilities.

Accordingly, waivers of Section 73.6011 of the Commission’s Rules with respect to interference to WFXT(TV); Section 73.6013 with regard to WUTF-DT and WTA-DT are requested and believed to be justified based on the aforementioned Longley-Rice studies.

EXHIBIT D-2

PO 'OJ MA  
 'FX' MA  
 'LA'  
 HAM:  
 Pw  
 'h  
 'FX' A) C) RO b) [g] [g] MA MA MA MA V V MA C' MA VT  
 WVT'A- d: d:  
 WVT'A d:  
 WTTN d d  
 DH d  
 WNI  
 WNI C) d: th' d d: p:  
 Ac d:

## INTERFERENCE SUMMARY

PROPOSED CLASS A STATION WFXZ-CA  
CHANNEL 24 – BOSTON, MASSACHUSETTS

<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>
WXFT(TV) BMLCT-19911001LV	Lic.	Boston, MA	25	6,202,239	30,228	
WUTF-DT BMPCDT-19981008KE	Appl.	Marlborough, MA	23	6,105,761	0	0
WUTF-DT BPCDT-19980420KE	CP	Marlborough, MA	23	6,103,134	0	0
WUTF-DT BDSTA-20020419ACD	STA	Marlborough, MA	23	5,867,351	0	0
* WTA-DT BMPEDT-20000501AIU	CPM	Windsor, VT	24	1,069,757	3,018	0.28
WTA-DT BDSTA-20020509ABG	STA	Windsor, VT	24	554,506	1,053	

\*The following stations were used as maskers: WEDH(TV), Channel 24, Hartford, Vermont, CT [BLET-341]; and, WSHH-TV(Allotment), Channel 23, Marlborough, Massachusetts [BLCT-850311KII].