

CONTOUR OVERLAP AND
LONGLY-RICE INTERFERENCE STUDIES
PROPOSED CLASS A STATION WIRE-CA
CHANNEL 40 – ATLANTA, GEORGIA

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 in ten instances: WMGT-DT(CP), Channel 40, Macon, Georgia; WDSI-DT(CPM), Channel 40, Chattanooga, Tennessee; WSB-DT(Appl., Lic.), Channel 39, Atlanta, Georgia; WJSU-TV, Channel 40, Anniston, Alabama; WATC-DT(CP), Channel 41, Atlanta, Georgia; WBSC-TV(CP, Lic.), Channel 40, Anderson, South Carolina; WTWC-TV(CP), Channel 40, Tallahassee, Florida; WATL(TV), Channel 36, Atlanta, Georgia; WHSG-TV(Appl.), Channel 44, Monroe, Georgia; and, WHKY-DT(CP), Channel 40, Hickory, North Carolina.

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

EXHIBIT D-1

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 WIRE-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 WJSU-TV, WBSC-TV, WTCV-TV, WATL(TV) and WHSG-TV; Section 73.6013 with regard to WMGT-DT, WDSI-DT, WSB-DT, WATC-DT and WHKY-DT are requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED WIRE-CA
ATLANTA - GA

REFERENCE
33 48 26 N
84 20 22 W

LPTV Pwr = 150 kW, HANSL COR= 523 M

DISPLAY DATES
DATA 05-19-04
SEARCH 05-21-04

Channel 40+, 626 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
WMGT-D*CP	40	Macon	GA 137.46	148.1	> 351.45	-213.99
WDSI-D*CPM	40	Chattanooga	TN 177.81	331.4	> 396.79	-208.74
WSB-DT*AP	39	Atlanta	GA 5.20	203.2	> 115.58	-110.28
WSB-DT*LI	39	Atlanta	GA 5.20	203.2	> 109.13	-103.93
WJSUTV*LI	40-	Anniston	AL 193.92	264.0	> 279.35	-85.43
WATC-D*CP	41	Atlanta	GA 30.66	339.8	> 101.83	-71.17
WBSCTV*CP	40Z	Anderson	SC 212.22	63.3	> 261.29	-38.48
WTWCTV*CP	40+	Tallahassee	FL 348.40	174.2	> 385.69	-37.29
WBSCTV*LI	40Z	Anderson	SC 212.22	63.3	> 255.26	-33.59
WATL LI	36Z	Atlanta	GA 0.00	0.0	> 032.00	-32.00
WHS GTV AP	44-	Monroe	GA 7.22	195.2	> 032.00	-24.78
WHKY-D*CP	40	Hickory	NC 348.51	51.2	> 358.40	-2.12
WTWCTV*LI	40+	Tallahassee	FL 357.25	178.4	> 363.29	8.94
WMGTTV*LI	41+	Macon	GA 137.46	148.1	> 098.37	39.09
WMGTTV CP	41+	Macon	GA 137.46	148.1	> 076.22	61.24

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

INTERFERENCE SUMMARY

PROPOSED CLASS A STATION WIRE-CA
CHANNEL 40 – ATLANTA, GEORGIA

<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>
WMGT-DT BPCDT-19991028AFQ	CP	Macon, GA	40	474,700	864	
*WDSI-DT BMPCDT-19990416KH	CP	Chattanooga, TN	40	875,969	1,644	
WSB-DT BPCDT-20040305ACY	Appl.	Atlanta, GA	39	3,362,240	0	0
WSB-DT BLCDT-19981026KF	Lic.	Atlanta, GA	39	3,254,920	0	0
WJSU-TV BLCT-19971009KE	Lic.	Anniston, AL	40	1,377,818	2,914	
WATC-DT BPEDT-20000322AAD	CP	Atlanta, GA	41	3,164,290	0	0
WBSC-TV BPCT-19960621KM	CP	Anderson, SC	40	1,073,516	131	
WTWC-TV BPCT-20000804ADI	CP	Tallahassee, FL	40	648,038	0	0
WBSC-TV BLCT-19841010KJ	Lic.	Anderson, SC	40	1,018,544	32	
WATL(TV) BLCT-20020816AAH	Lic.	Atlanta, GA	36	3,080,895	0	0
WHSG-TV BPCT-20020220ABL	Appl.	Monroe, GA	44	3,009,742	0	0
WHKY-DT BPCDT-19991027ABU	CP	Hickory, NC	40	976,460	0	0

*Used as a masker was WJSU-TV, Channel 40 in Anniston, Alabama.