

ALLOCATION AND INTERFERENCE STUDY

PROPOSED WAGA-DT
CHANNEL 27 - ATLANTA, GEORGIA

The Commission allotted Channel 27 to WAGA-DT with a nominal ERP of 1000 kw at 326 meters above average terrain. The instant amendment specifies an ERP of 1000 kw, nondirectional, at 332 meters, which is allowable under the FCC's *de minimis* standards with respect to various NTSC and DTV facilities.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe" computer program, which has been found generally to mimic the FCC's program. Changes in interference caused by WAGA-DT to other pertinent stations are tabulated in Exhibit E-2.

As indicated, the proposed WAGA-DT facility would not contribute more than two percent DTV interference to the service population of any affected NTSC or DTV station. In addition, this proposal does not result in any NTSC or DTV station receiving more than ten percent total DTV interference to viewers living within its present service area.

Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

This interference study employs a signal resolution (cell size) of 1 kilometer, instead of 2 kilometers, and a profile spacing increment of 0.1 kilometer instead of 1 kilometer. In doing so, we rely on the Commission's August 10, 1998, Public Notice "Additional Applications Processing Guidelines for DTV."

EXHIBIT E-2

DE MINIMIS INTERFERENCE ANALYSIS

PROPOSED WAGA-DT
CHANNEL 27 - ATLANTA, GEORGIA

NTSC FACILITIES									
Interference Losses (Population)									
Call	City of License	Ch.	Grade B Population F(50,50)	NTSC & DTV		NTSC & DTV		NTSC & DTV	
				NTSC Only	Without WAGA-DT	Unmasked DTV	% ¹	With WAGA-DT	Unmasked DTV
WTXL-TV(CP)	Tallahassee, FL	27	727,196	17,039	19,008	1,969	0.3	19,012	1,973
WTNB-L	Cleveland, TN	27	70,600	0	24	24 < 0.1		60	60 < 0.1
Appl.	Canton, NC	27	182,456	0	7,842	7,842	4.3	7,842	7,842
WJSP-TV	Columbus, GA	28	1,034,308	33,483	47,383	13,900	1.3	67,653	34,170
WHOT-TV	Athens, GA	34	4,204,688	301,518	313,068	11,550	0.3	315,125	13,607
							0.3	2,057	< 0.1

DTV FACILITIES

Interference Losses (Population)									
Call	City of License	Ch.	NTSC/DTV ³ Grade B Pop. Longley-Rice	NTSC & DTV		NTSC & DTV		NTSC & DTV	
				NTSC Only	Without WAGA-DT	Unmasked DTV	% ¹	With WAGA-DT	Unmasked DTV
WCCB-DT(Alt.)	Charlotte, NC	27	2,925,116	170,013	226,716	56,703	1.9	227,072	57,059
WCCB-DT(CP)	Charlotte, NC	27	2,263,058	41,309	81,557	40,248	1.8	81,557	40,248
WKRN-DT(Alt.)	Nashville, TN	27	2,009,429	11,958	11,958	0	0	13,488	1,530
WKRN-DT(CP)	Nashville, TN	27	2,006,415	12,307	12,307	0	0	13,360	1,053
							< 0.1	1,053	< 0.1

¹ Cannot exceed 10%, under FCC *de minimis* interference standards.
² Cannot exceed 2%, under FCC *de minimis* interference standards.
³ Larger of either NTSC Grade B population (with no DTV losses) or DTV Grade B population with all losses.