

INTERFERENCE STUDY
PROPOSED WKOI-DT
CHANNEL 39 – RICHMOND, INDIANA
[MODIFICATION OF BPCDT-19990601KF]

The instant application specifies an ERP of 500 kw (directional) at 277 meters, which we have determined to be 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 II" computer program, which has been found generally to mimic the FCC's program. In conducting our studies, we employed a signal resolution of 2 kilometers and an increment spacing of 1.0 kilometer along each radial, unless otherwise noted. In addition, we utilized the 1990 U.S. Census. Changes in interference caused by WKOI-DT to other pertinent stations are tabulated in Exhibit E-2.

As shown, the proposed WOIK-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 authorized service area.

A Longley-Rice interference study also reveals that the proposed WKOI-DT facility does not cause significant interference within the protected 74 dBu contour of any potentially affected Class A low power television station, except WBQC-CA, Channel 25 in Cincinnati, Ohio. However, WKOI-DT, as authorized in BPCDT-19990601KF, causes more interference to this Class A facility than that from the instant proposal. Therefore, no increase in interference to WBQC-CA would result from a grant of the facility proposed herein.

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

EXHIBIT E-2

INTERFERENCE STUDY SUMMARY
 PROPOSED WKOI-DT
 CHANNEL 39 – RICHMOND, INDIANA
 [MODIFICATION OF BPCDT-19990601KF]

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From WKOI-DT</u>	<u>%</u>	<u>Total DTV Interference</u>	<u>%</u>
WFWA(TV) BLET-19920131KF	Fort Wayne, IN	39	686,052	1,183	0.2	15,262	2.2
WBAK-DT BMPCDT-19991101AJG	Terre Haute, IN	39	723,674	219	<0.1	10,275	1.4
WLEX-DT BPRM-20000801AAC	Lexington, KY	39	842,687	14,170	1.7	29,735	3.5
WLEX-DT BPCDT-20000501AJY	Lexington, KY	39	816,078	12,985	1.6	27,168	3.3
WBQC-CA BLTTL-19980826JB	Cincinnati, OH	25	1,294,614	0	0	--	--
WBQC-CA BMJPTTA-20010112AAT	Cincinnati, OH	38	1,459,952	25,912	1.8*	--	--
WDLI-DT BLCDDT-20030421ABK	Canton, OH	39	3,891,021	360	<0.1	43,871	1.1
WLPX-DT BLCDDT-20020510AAM	Charleston, WV	39	925,268	0	0	49,925	5.4
WDLI-DT BLCT-2558	Canton, OH	39	1,778,340	116	<0.1	22,663	1.3
WKRP-DT BMPCT-891031KI	Charleston, WV	39	505,539	5,044	1.0	15,041	3.0

*WKOI-DT, as authorized in BPCDT-19990601KF, causes interference to 28,620 people (2.0 percent) within the protected contour of WBQC-CA. Grant of the instant application reduces the interference.