

INTERFERENCE STUDY
PROPOSED KDTX-DT
CHANNEL 45 - DALLAS, TEXAS
[MODIFICATION OF BPCDT-19991028AFX]

The Commission allotted Channel 45 to KDTX-DT with a nominal ERP of 154 kw (directional) at 438 meters above average terrain. The instant application specifies an ERP of 1000 kw (directional) at 494 meters, which we find 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 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. In addition, we utilized the 1990 U.S. Census. Changes in interference caused by proposed KDTX-DT to other pertinent stations are tabulated in Exhibit E-2.

As indicated, except in one instance (the KTAQ-DT allotment facility), the proposed KDTX-DT facility would not contribute more than two percent DTV interference to the service population of any affected DTV or NTSC station, including Class A LPTV facilities. 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.

With regard to the allotment facility of KTAQ-DT, to which the predicted interference from proposed KDTX-DT is in excess of the FCC's standard, the permittee of KDTX-DT has obtained an interference agreement from the owner of KTAQ-DT under which the latter does not object to the instant proposal. A copy of that agreement appears in the non-engineering portion of this application.

Thus, this proposal meets the FCC's interference standards for DTV operations.

EXHIBIT E-2

DE MINIMIS INTERFERENCE ANALYSIS
 PROPOSED KDTX-DT
 CHANNEL 45 - DALLAS, TEXAS
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NTSC FACILITIES

Call Sign	City, State	Ch.	Grade B Population F(50,50)	INTERFERENCE LOSSES (POPULATION)									
				NTSC Only	NTSC & DTW Without KDTX-DT	Unmasked DTV	% ¹	NTSC & DTW With KDTX-DT	Unmasked DTV	% ¹	KDTX-DT Contribution % ²		
KSHV	Shreveport, LA	45	619,674	0	229	229	< 0.1	6,201	6,201	6,201	1.0	5,972	1.0
Appl.	Fort Worth, TX	31	3,484,984	379,881	486,478	106,597	3.1	486,478	106,597	106,597	3.1	0	0
KUVN-CA (CP)	Fort Worth, TX	47	583,855	103,430	103,430	0	0	103,430	103,430	103,430	0	0	0
KVFW-LP (CP)	Fort Worth, TX	38	1,242,157	0	0	0	0	0	0	0	0	0	0
KVFW-LP (Appl.)	Fort Worth, TX	38	1,867,584	0	0	0	0	0	0	0	0	0	0
KWKT	Waco, TX	44	638,955	0	31,698	31,698	5.0	31,702	31,702	31,702	5.0	4	<0.1
KLEG-LP	Dallas, TX	44	1,714,814	103,340	286,286	182,946	10.7	286,286	182,946	182,946	10.7	0	0
KGSW-LP	Keene, TX	46	45,057	0	0	0	0	0	0	0	0	0	0
KTAQ	Greenville, TX	47	1,464,888	108,494	452,520	344,026	23.5	452,520	344,026	344,026	23.5	0	0

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.

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DTV FACILITIES

Call Sign	City, State	Ch.	Grade B Population F(50,50)	INTERFERENCE LOSSES (POPULATION)										
				NTSC Only	NTSC & DTV Without KDTX-DT	Unmasked DTV	% ¹	NTSC & DTV With KDTX-DT	Unmasked DTV	% ¹	KDTX-DT Contribution % ²			
KTAQ-DT (CP)	Greenville, TX	46	4,135,725	12,691	12,691	0	0	13,235	544	< 0.1	544	< 0.1	544	< 0.1
KTAQ-DT (Allot.)	Greenville, TX	46	919,144	9,583	9,609	26	< 0.1	173,742	164,159	17.9	164,133	17.9 ⁴	164,133	17.9 ⁴

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.

⁴ See discussion in Exhibit E-1.