

TERRAIN AND CONTOUR DATA
PROPOSED KTVI-DT
CHANNEL 43 - SAINT LOUIS, MISSOURI

Az. (° T)	Avg. Elv. AMSL 2 to 10 Miles		Effective Ant. Ht. AAT		Distance to Predicted Digital Contour (41 dbμ)	
	meters	feet	meters	feet	km.	mi.
0	174	570	322	1057	99	62
45	153	502	343	1125	101	63
90	132	434	364	1193	103	64
135	146	479	350	1149	102	63
180	156	511	340	1116	101	63
225	174	572	322	1056	99	62
270	148	486	348	1141	102	63
315	185	605	311	1022	98	61

NOTE: Due to rounding, metric figures may not add precisely.

Height of radiation center above mean sea level	496 meters
Height of average terrain above mean sea level	159 meters
Height of radiation center above average terrain	337 meters
Effective radiated power, main lobe, maximum	30.0 dbk, 1000 kw

Geographic Coordinates

N 38° 32' 07" W 90° 22' 23"

POPULATION (2000 CENSUS)
41 DBU CONTOUR : 2,861,749

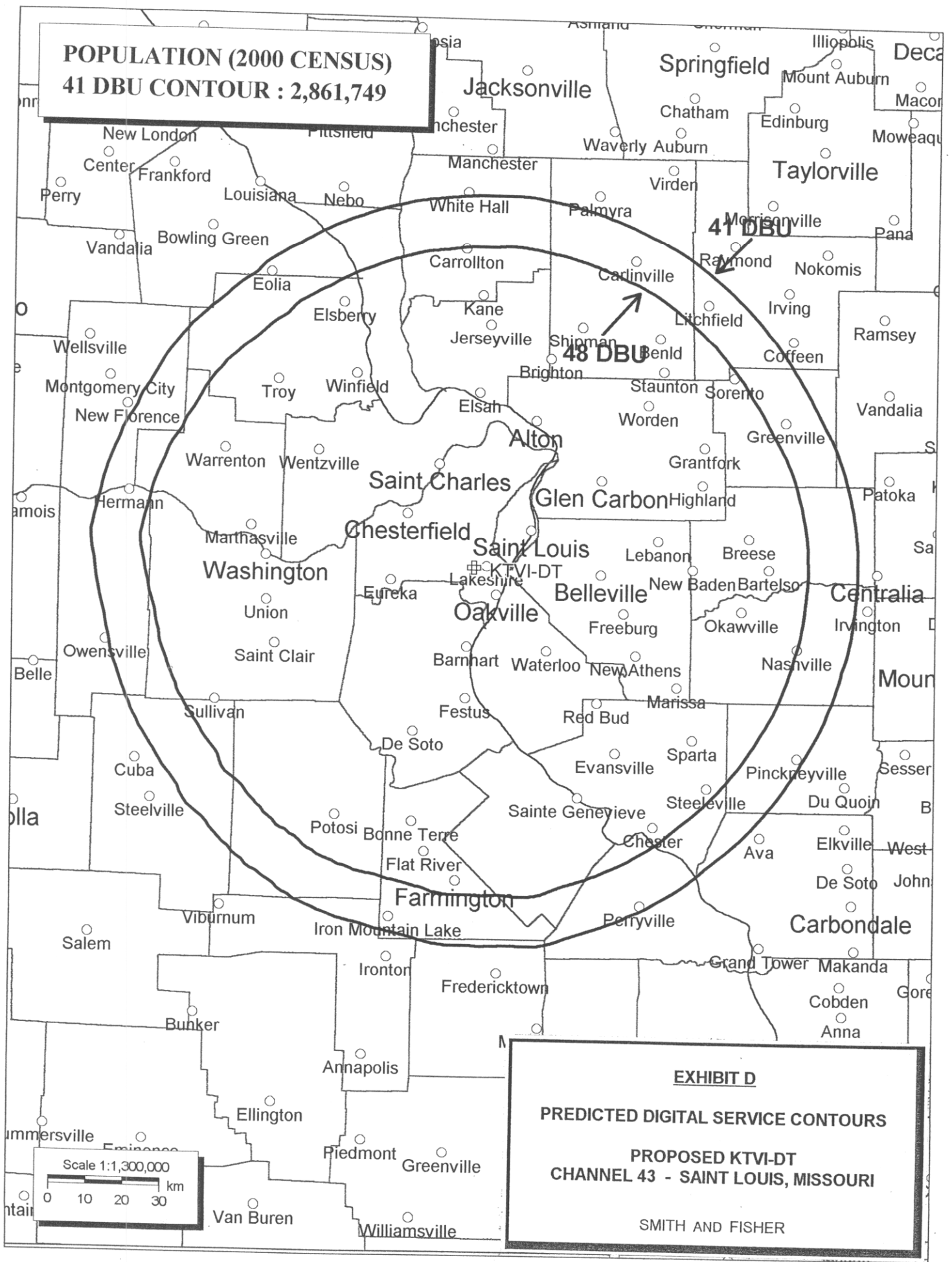


EXHIBIT D
PREDICTED DIGITAL SERVICE CONTOURS
PROPOSED KTVI-DT
CHANNEL 43 - SAINT LOUIS, MISSOURI
SMITH AND FISHER

ALLOCATION AND INTERFERENCE STUDY

PROPOSED KTVI-DT
CHANNEL 43 - SAINT LOUIS, MISSOURI

The Commission allotted Channel 43 to KTVI-DT with a nominal ERP of 1000 kw at 335 meters above average terrain, and KTVI-DT is licensed to operate with 834 kilowatts at 337 meters. The instant application specifies an ERP of 1000 kw, nondirectional, at 337 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 KTVI-DT to other pertinent stations are tabulated in Exhibit E-2.

As indicated, the proposed KTVI-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."

DE MINIMIS INTERFERENCE ANALYSIS

PROPOSED KTVI-DT
CHANNEL 43 - SAINT LOUIS, MISSOURI

NTSC FACILITIES

Call	City of License	Ch.	Grade B Population F(50,50)	Interference Losses (Population)							
				NTSC Only	NTSC & DTV Without KTVI-DT		NTSC & DTV With KTVI-DT		Unmasked DTV		KTVI-DT Contribution % ²
Appl.	Saint Louis, MO	40	2,376,877	0	552,663	552,663	23.3	552,711	552,711	23.3	48 < 0.1
Prop.	Saint Louis, MO	41	2,375,993	0	31,214	31,214	1.3	50,045	50,045	2.1	18,831 0.8
WYZZ-TV	Bloomington, IL	43	622,179	39,332	41,797	2,465	0.4	41,888	2,556	0.4	91 < 0.1

DTV FACILITIES

Interference Losses (Population)													
Call	City of License	Ch.	NTSC/DTV ³ Grade B Pop. Longley-Rice	NTSC & DTV		Unmasked		NTSC & DTV With		Unmasked		KTVI-DT Contribution	% ²
				NTSC Only	Without KTVI-DT	DTV	% ¹	KTVI-DT	DTV	% ¹			
WICS-DT (CP)	Springfield, IL	42	1,157,484	1,189	1,247	58	< 0.1	6,299	5,110	0.4	5,052	0.4	
WRSP-DT (CP)	Springfield, IL	44	1,184,301	4,490	4,490	0	0	10,088	5,598	0.5	5,598	0.5	

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.