

INTERFERENCE STUDY
PROPOSED KPXJ-DT
CHANNEL 21 – MINDEN, LOUISIANA

The instant application specifies an ERP of 1,000 kw (omnidirectional) at 502 meters above average terrain, 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. In addition, we utilized the 1990 U.S. Census. Changes in interference caused by proposed KPXJ-DT to other pertinent stations are tabulated in Exhibit E-2.

As shown, the proposed KPXJ-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 KPXJ-DT facility does not cause interference within the protected 74 dBu contour of any potentially affected Class A low power television station, including KSJA-CA, Channel 21 in Nashville, Arkansas (see Exhibit E-2).

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

EXHIBIT E-2

INTERFERENCE STUDY SUMMARY

PROPOSED KPXJ-DT
CHANNEL 21 – MINDEN, LOUISIANA

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From KPXJ-DT</u>	<u>%</u>	<u>Total DTV Interference</u>	<u>%</u>
KHBS-DT BPCDT-20021023AAV	Fort Smith, AR	21	499,817	1,586	0.3	6,927	1.4
KHBS-DT Allotment	Fort Smith, AR	21	313,565	1,443	0.5	2,103	0.7
WAPT-DT BPCDT-19990915ATM	Jackson, MS	21	692,669	192	<0.1	7,359	1.1
KTXA(TV) BLCT-19801231KF	Fort Worth, TX	21	4,058,324	364	<0.1	2,468	<0.1
Appl. BPCT-19960724LH	Beaumont, TX	21	650,451	71	<0.1		
KETK-DT BPCDT-19991014ACD	Jacksonville, TX	21	819,119	9,098	1.1	9,298	1.1
KETK-DT Allotment	Jacksonville, TX	21	554,578	586	0.1	586	0.1
KFMD-DT Allotment	Beaumont, TX	21	671,976	468	<0.1	972	0.1
KSJA-CA BLTTL-19960111AF	Nashville, TN	21	11,872	56	0.47		