

DIGITAL COMPANION APPLICATION
JOSEPH W. SHAFFER
KTDF-LP LPTV STATION
CH 4 - 66-72 MHZ - 0.3 KW
SAN ANTONIO, TEXAS
August 2011

TECHNICAL STATEMENT

This Technical Statement and attached exhibits were prepared on behalf of Joseph W. Shaffer ("Shaffer"), licensee of LPTV station KTDF-LP, Channel 23-, San Antonio, Texas. This application seeks authorization for a companion digital channel for KTDF-LP. This instant application seeks to use digital Channel 4 in conjunction with analog Channel 23- at San Antonio, Texas.

The antenna system for the proposed digital KTDF-LP will be located on an existing structure. Therefore, the Federal Aviation Administration was not apprised of this proposal. The antenna supporting structure has been registered with the Commission and assigned Antenna Structure Registration Number 1054137.

The proposed digital KTDF-LP operation on Channel 4 complies with the Commission's interference rules, based on the use of the Longley-Rice OET-69 Bulletin.¹ It is noted that the terrain was sampled at 0.1 kilometer, and a signal cell size of 1.0 kilometer was used, with 2000 Census population reviews. Attached as Exhibit A is a tabulation of the results of the Longley-Rice review showing the proposed facility causes no interference to any other existing, applied

1) The Longley-Rice model was implemented on the Probe 3 computer model from V-Soft Communications. This model has been found to closely replicate the results provided by the Commission's computer model.

for or proposed facility, based on the database used on the indicated study date. No full service station receives predicted interference above 0.5% of its population, caused by this instant proposal. No secondary LPTV station receives predicted interference above 2.0% of its population, caused by this instant proposal. A simple emission mask was used for calculation purposes. Attached as Exhibit B is a review which shows the proposed digital KTDF-LP facility is in compliance with the Commission's RF exposure limits.

All other data used to certify compliance with the Commission's rules has been forwarded to Shaffer and is available for submission to the Commission on request.²

2) The undersigned is certifying only the radio frequency exposure portion of the environmental analysis. All data regarding TV facilities was extracted from the CDBS database. We assume no liability for errors or omissions in that database which may be adverse to the request made herein.