

DIGITAL DISPLACEMENT APPLICATION
OKLAHOMA COMMUNITY TELEVISION, LLC
K51EK LPTV STATION
CH 16 - 482-488 MHZ - 0.40 kW (DA)
MCALESTER, OKLAHOMA
June 2012

TECHNICAL STATEMENT

This Technical Statement and attached exhibits were prepared on behalf of Oklahoma Community Television, LLC ("OCT"), licensee of analog LPTV station K51EK, Channel 51Z, McAlester, Oklahoma. OCT herein proposes a digital displacement channel for K51EK on Channel 16 at an alternate transmitter site.

The antenna system for the proposed K51EK Channel 16 digital facility is to be located on an existing structure. Therefore, the Federal Aviation Administration was not apprised of this proposal. The tower on which the antenna is to be located has been registered with the Commission and assigned Antenna Structure Registration Number 1051571.

The proposed K51EK facility's operation on digital Channel 16 complies with the Commission's interference rules, based on the use of the Longley-Rice OET #69 Bulletin. Exhibit A is a tabulation of the results of the Longley-Rice review showing that the proposed facility causes no interference to any existing, applied for, or proposed facility, based on the database used on the indicated study date. 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.¹

1) The analysis was conducted using the Probe 3 computer model from V-Soft Communications which has been found to replicate the results of the Sun DTV computer model used by the Commissions staff in reviewing television applications.

No full service station receives predicted interference above 0.5% of its population as a result of this instant proposal. No secondary LPTV station receives predicted interference above 2.0% of its population as a result of this instant proposal.

Exhibit B is a review that shows the proposed K51EK digital Channel 16 antenna is in compliance with the Commission's RF exposure limits. All data used to certify compliance with the Commission's rules has been forwarded to OCT 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 on the date of the interference study included herein. We assume no liability for errors or omissions in that database which may be adverse to the request made herein.