

**NEW TV TRANSLATOR APPLICATION**  
**OKLAHOMA BROADCAST ASSOCIATES, LLC**  
**NEW DIGITAL TV TRANSLATOR STATION**  
**CH 35 - 596-602 MHZ - 0.250 KW**  
**LAMONT, OKLAHOMA**  
**September 2009**

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibits were prepared on behalf of Oklahoma Broadcast Associates, LLC ("OBA"), an applicant seeking authority to construct a new digital TV translator facility on Channel 35 in Lamont, Oklahoma. The site proposed for Channel 35 is farther than 121 kilometers (75 miles) from any of the geographically restricted communities listed in the Commission's June 29, 2009 Public Notice announcing the opening of a digital LPTV/TV translator filing window. The proposed translator will rebroadcast the signal of digital LPTV station KXOK-LD, Channel 31, Enid, Oklahoma.

The antenna system for the proposed new TV translator station will be located on an existing tower. Therefore, the Federal Aviation Administration was not apprised of this proposal. The tower has been registered with the Commission and assigned Antenna Structure Registration Number 1240545.

The proposed Channel 35 digital operation complies with the Commission's interference rules, based on the use of the Longley-Rice, OET-69 Bulletin<sup>1</sup>. 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

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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.



population reviews. A simple emission mask was used in the calculations. 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 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.

Since the proposed TV translator facility will be co-located with an FM station, the worksheets associated with FCC Form 346 could not be used to demonstrate compliance with the Commission's radio frequency radiation rules. Attached as Exhibit B is a review which shows the proposed TV translator station 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 OBA and is available for submission to the Commission on request.<sup>2</sup>

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2) The undersigned is certifying only the radiofrequency 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.