

ENGINEERING STATEMENT OF RYAN WILHOUR OF THE FIRM OF
KESSLER AND GEHMAN ASSOCIATES, INC., CONSULTING ENGINEERS IN
CONNECTION WITH AN APPLICATION FOR A MINOR MODIFICATION OF A
CONSTRUCTION PERMITTED DIGITAL TELEVISION TRANSLATOR FACILITY HAVING
CALL SIGN: W28DR-D AND FCC FILE NUMBER BNPDTT-20090825BED
CEDARVILLE, WEST VIRGINIA

PREFACE

Kessler and Gehman Associates, Inc. has been retained by West Virginia Educational Broadcasting Authority ("WVEBA") to prepare engineering studies and the engineering portion of FCC Form 346 for the minor modification of a construction permitted digital translator broadcast facility having a facility identification number of 181586.

ENGINEERING EXHIBITS

In carrying out the engineering studies the following attached exhibits were prepared:

1. Permitted and Proposed Specifications (Exhibit 14.1)
2. Map comparing the permitted and proposed coverage contour (Exhibit 14.2)
3. Environmental impact / RFR hazard analysis and methodology (Exhibit 14.3)

DISCUSSION

Exhibit 14.1 highlights the technical parameters being modified in the instant application relative to the permitted facility. Accordingly, the following FCC 346 Form Section and Numbers are being modified:

- Section III Number 9 is being modified from 15 kW to 10.1 kW
- Section III Number 10 is being modified from 2.35 kW to 0.5 kW
- Section III Number 11a is being modified from DIE TLP-8A to PSI PSILP12WDC-28

No other technical changes are being made. Exhibit 14.2 illustrates the proposed and permitted coverage contours and further demonstrates that the Cedarville community of license lies completely within the proposed coverage contour.

ALLOCATION STUDIES

The proposed ERP power reduction will not cause additional interference to neighboring facilities, thus allocation studies have not been prepared.

ENVIRONMENTAL IMPACT / RFR HAZARD ANALYSIS

An analysis has been made of the human exposure to RFR using the calculation methodology described in OET Bulletin 65, Edition, 97-01. Exhibit 14.3 is a RFR study demonstrating compliance within 5% of the most restrictive permissible exposure at any location 2 meters above the ground (See Methodology). Exhibit 14.3 calculations were made using a frequency of 554 MHz, which is the lower edge of the proposed channel. To account for ground reflections, a coefficient of 1.6 was included in the calculations.

Pursuant to OET Bulletin 65 concerning multiple-user transmitter sites only those licensees whose transmitters produce power density levels greater than 5.0% of the exposure limit are considered significant contributors to RFR. Since the proposed operation is well within 5% of the most permissible exposure at any location 2 meters above the ground, it is not considered a significant contributor to RFR exposure. Thus, contributions to exposure from other RF sources in the vicinity of the proposed facility were not taken into account. The instant

Kessler and Gehman Associates, Inc.

Consultants • Broadcast • Wireless
www.kesslerandgehman.com



proposal complies with the FCC limits for human exposure to RF radiation and thus is excluded from further environmental processing.

The applicant will cooperate with any other users of the tower by reducing the power to the antenna or if necessary completely cutting it off in order to protect maintenance workers on the tower.

DECLARATION OF ENGINEER

The foregoing statement and the report regarding the aforementioned engineering work are true and correct to the best of my knowledge. Executed on January 31, 2013.

KESSLER AND GEHMAN ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Ryan Wilhour'.

Ryan Wilhour
Consulting Engineer