RF ENERGY STATEMENT FOR
PROPOSED AUXILIARY ANTENNA OPERATION OF
DTV STATION WCWN
SCHENECTADY, NEW YORK
CH.43 326 KW-DA 342 M

A radio frequency (RF) energy evaluation was conducted for the proposed WCWN digital auxiliary antenna operation with respect to Section 1.1307(b) of the FCC Rules regarding human exposure to RF energy. Calculations in accordance with FCC Bulletin OET-65 indicate that the proposal will not cause excessive radiation when considering the other authorized stations at the site. Power density calculations were made at a location 2 meters above ground level. The vertical radiation pattern on file with the FCC for each station at the site was examined and a conservative value assumed for the downward radiation (antenna relative field). The following table lists the assumed "worst case" calculated power density for each of the authorized stations at the site and provides the percentage of the FCC's "uncontrolled" exposure limit. As shown, the "uncontrolled" exposure is less than 45% of the FCC's limit considering all other authorized stations at the site, including the proposed WCWN digital auxiliary operation. Furthermore, the transmitter site is restricted from access. In addition, the applicant, in coordination with other users at the site, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna systems from RF energy in excess of the FCC guidelines.

Call	Chan.	ERP	Rc AGL	Assumed Relative Field	Power Density at 2 m AGL	Uncontrolled Percentage
WMHT-FM	206	12.2 kW	84 m	0.45	12.27 uW/cm2	6.1 %
WRGB-DT	6	30.2	106	0.24	5.37	2.7
WXXA-DT	7	10	149	0.24	0.89	0.5
WNYT-DT	12	15	149	0.38	3.35	1.7
WTEN-DT	26	700	139	0.15	28.03	7.7
WMHT-DT	34	325	139	0.18	18.74	4.7
WCWN-DT (Prop. Aux)	43	326	53.6	0.15	92.01	21.3
					TOTAL	44.7 %

TECHNICAL EXHIBIT
SUPPORTING THE COMMENTS FROM
NEW YORK TIMES MANAGEMENT SERVICES
STATION KAUT-DT (FACILITY ID 50182)
OKLAHOMA CITY, OKLAHOMA
CHANNEL 40

Technical Narrative

This Technical Exhibit supports the comments from New York Times Management Services licensee of station KAUT-DT, which currently operates on channel 40 at Oklahoma City, OK (Facility ID 50182). These comments address the Federal Communications Commission (FCC) Seventh Further Notice of Proposed Rule Making (7th FNPRM) in MB Docket No. 87-268.

Station KAUT-DT is currently licensed to operate on channel 40 (BLCDT-20060504ACH) with a maximum effective radiated power (ERP) is 1000 kW and an antenna height above average terrain (HAAT) of 436.9 meters. The antenna center of radiation is 449.3 meters above ground level (AGL), and 785.2 meters above mean sea level (AMSL). The transmitter site coordinates are 35-35-52, 97-29-22 (NAD-27). The FCC antenna structure registration number is 1045226.

The FCC's 7th FNPRM proposes channel 40 as KAUT-DT's tentative channel designation (TCD) for post transition DTV operation. The FCC's proposed DTV allotment on channel 40 specifies an ERP of 55.6 kW-DA and antenna HAAT of 475 meters at site coordinates of 35-35-22, 97-29-03. It is proposed to change the DTV allotment facilities to the KAUT-DT's currently licensed facilities (BLCDT-20060504ACH). Specifically, it is proposed to change the ERP from 55.6 kW-DA to 1000 kW-ND, change the HAAT from 475 meters to 436.9 meters, and change transmitter sites to reflect KAUT-DT's built facilities.

Interference calculations have been made using the procedures outlined in the FCC's the OET-69 Bulletin. A 2 kilometer grid, a 1 kilometer terrain increment, and the 2000 Census have been

employed. The following lists the assignments requiring consideration and new interference caused by the currently licensed KAUT-DT operation on channel 40 (ERP 1000 kW-ND, HAAT 436.9 m).

KXTX-DT, Ch. 40, Dallas, TX New KAUT-DT interference = 581 people (0.011%)

In addition to complying with the 0.1% interference criteria, the KAUT-DT allotted facilities serve 1,272,377 viewers, whereas the maximized facilities currently serve 1,429,791 viewers. Thus, if the FCC requires KAUT-DT to operate based on its current allotted facilities, 157,414 viewers would no longer receive KAUT-DT.

Based on the foregoing, the FCC is respectfully requested to change the KAUT-DT specified allotment facility as described herein.

W. Jeffrey Reynolds

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000 voice
(941) 329-6030 fax
jeff@dlr.com e-mail

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