

## R.F. RADIATION COMPLIANCE STATEMENT

### WPNE-TV-D (CH 25)

#### STATE OF WISCONSIN - EDUCATIONAL COMMUNICATIONS BOARD

October 3, 2017

The applicant proposes to operate on channel 25 from its currently licensed transmission site using a radiated power of 400 kW, from an antenna height above ground of 325 meters. There are two FM broadcast stations and one other DTV station on the same tower. Using the formulas as provided in the current OET-65 bulletin, modified by the EPA's vertical field antenna measurements, the following table provides each station's contribution to the R.F. environment at head height at its nadir:

Call Sign	Antenna	ERP kW	Height A.G. m <sup>1</sup>	Power Density	Uncontrolled
WIXX (FM)	RCA BFC-12C	100	281	5.5 $\mu\text{w}/\text{cm}^2$	2.75 %
WPNE (FM)	DIE DCRM-12P	100	237	3.95 $\mu\text{w}/\text{cm}^2$	1.97 %
WBAY-D (23)	DIE TUD 05-14	1,000	323	12.8 $\mu\text{w}/\text{cm}^2$	3.65 %
<b>WPNE-TV-D (25)</b>	<b>DIE TUD 05-14</b>	<b>400</b>	<b>323</b>	<b>5.12 <math>\mu\text{w}/\text{cm}^2</math>*</b>	<b>1.43 %</b>
				Total	9.80%

Although the WPNE-TV-D transmitter site qualifies as a controlled area with a fence that is gated and locked, we have chosen to show that the area qualifies as hazard-free even when the stricter standard of an uncontrolled area is applied.

There are no other AM, FM or TV stations located on the proposed tower or in the immediate area. The applicant will reduce transmitting power to safe levels or terminate transmissions in the event a worker must go on to the tower and be at a distance from the proposed antenna such that over-exposure would result. Consequently, it appears that the proposed channel 25 transmitting antenna will be in full compliance with the Commission's human exposure to radio frequency electromagnetic field rules and regulations.

Doug Vernier

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<sup>1</sup> All antenna heights are measured from the antenna centers to head height (2 m)

<sup>2\*</sup> 0.2 high gain antenna field value is used