



**RF RADIATION CALCULATIONS  
IN ACCORDANCE WITH OET BULLETIN 65**

**TOWER COORDINATES: 44°-24'-34.6"; 88°-00'-06.3"**  
**WBAY-TV TOWER SITE**  
**DEPERE, WISCONSIN**

**December, 2002**

<b>Station</b>	<b>Frequency (MHz)</b>	<b>ERP (KW) (Visual for TV)</b>	<b>Antenna Height AGL(m)</b>	<b>Power Density (mW/cm<sup>2</sup>)</b>	<b>% FCC Public Exposure Max.</b>
WBAY-TV	57	100*	342	0.001156	0.58
WBAY-DT	527	1000	325	0.012809	3.65
WPNE(TV)	617	1070	325	0.006853	1.67
Prop. WPNE-DT	641	200	325	0.002562	0.60
WIXX(FM) – 12-bay ant.	101.1	100*	283	0.045812	22.91
WPNE-FM – 12-bay ant.	89.3	100*	239	0.064398	32.20
<b>TOTAL</b>					<b>61.61</b>

\* Circularly polarized

Notes:

The power densities were calculated at a point two meters above ground at the base of the tower. For the TV and DTV stations, Equation (9) or (10) of OET Bulletin 65, or Equation (2) of Supplement A of OET 65 was used. For the FM stations, the FM Model program from OET was used, assuming EPA Type 1 antennas. All broadcast radiators within 300 meters horizontal distance are included above.

The aural ERP for the analog TV stations was assumed to be 10% of visual. A downward radiated field of 20% was used for all TV and DTV stations.