EVANS ASSOCIATES

RF RADIATION CALCULATIONS
IN ACCORDANCE WITH OET BULLETIN 65

TOWER COORDINATES: 44°-24'-35"; 88°-00'-06"
WBAY/WPNE TV TOWER SITE
DE PERE, WISCONSIN

February, 2010

Station	Frequency (MHz)	ERP (KW) (Visual for TV)	Antenna Height AGL(m)	Power Density (mW/cm²)	% FCC Public Exposure Max.
WBAY-DT	527	1000	325	0.012806	3.64
Prop. WPNE-DT	641	300	325	0.003842	0.90
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
KIG-65	162.55	4.9	76	0.029887	14.94
				TOTAL	74.59

* Circularly polarized

Notes:

The power densities were calculated at a point two meters above ground at the base of the tower. For the DTV stations, Equation (10) of OET Bulletin 65 (using a downward radiation relative field factor of 0.2) was used. For weather station KIG-65, Equation (9) 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.