

**SUMMARY OF RADIOFREQUENCY
RADIATION STUDY**
WQHK-FM, DECATUR, INDIANA
WFWI(FM), FORT WAYNE, INDIANA
JANUARY, 2008

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLARIZATION</u>	<u>ANTENNA HEIGHT **</u>	<u>SLANT DIST TO SUBJECT TOWER</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>WORST-CASE PREDICTED POWER DENSITY (mW/cm²)</u>	<u>FCC UNCONTROLLED LIMIT (mW/cm²)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
-- Stations co-located with APP (dist = 0 meters)				Ground Elevation =	220	meters					
WQHK-APP	FM	286	105.1	H & V	199	N/A	5.700	1.000	0.00962	0.200	4.81%
WFWI-APP	FM	222	92.3	H & V	199	N/A	1.400	1.000	0.00236	0.200	1.18%
WMEE	FM	247	97.3	H & V	199	N/A	26.000	1.000	0.04387	0.200	21.94%
W277AK	FM	277	103.3	H	107	N/A	0.019	1.000	0.00006	0.200	0.03%
-- Stations within 315 meters of APP -- Distance =				279	meters						
Ground Elevation =				250	meters						
WFFT	TV	55	719	H	236	384	603.000	0.300	0.00614	0.479	1.28%
WFFT-DT	TV	36	605	H	213	369	1000.000	0.300	0.01106	0.403	2.74%
TOTAL PERCENTAGE OF ANSI VALUE=											27.95%

* For television stations a very conservative vertical relative field factor of 0.3 was assumed.

** For co-located stations, the RCAGL indicated above considers this ground elevation minus 2 meters for the human height allowance.

note: For stations not co-located with the subject station, the slant distance to 2 meters above the subject tower base was used to compute the predicted power density.