

**SUMMARY OF RADIOFREQUENCY
RADIATION STUDY**
WPAT-FM and WSKQ-FM AUXILIARY APP
August 19, 2019

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLAR- IZATION</u>	<u>ANTENNA HEIGHT</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>WORST-CASE PREDICTED POWER DENSITY ($\mu\text{W}/\text{cm}^2$)</u>	<u>FCC UNCONTROLLED LIMIT ($\mu\text{W}/\text{cm}^2$)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WPAT-AUX-APP	FM	226	93.1	H & V	113	10.000	note 1	31.994	200.00	16.00%
WSKQ-AUX-APP	FM	250	97.9	H & V	113	20.000	note 1	63.989	200.00	31.99%
WFDU	FM	206	89.1	H & V	77	3.000	note 2	3.746	200.00	1.87%
WPLJ-AUX	FM	238	95.5	H & V	235	19.000	note 3	9.506	200.00	4.75%
W232AL	FM	232	94.3	H & V	98	0.050	1.000	0.363	200.00	0.18%
W252DX-CP	FM	252	98.3	V	60	0.090	1.000	0.894	200.00	0.45%
WNYJ-LP	DT	28	557	H & V	82.3	15.000	0.300	13.990	371.33	3.77%
TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =										59.01%

* For television stations a very conservative vertical relative field factor of 0.3 was assumed pursuant to OET Bulletin 65.

note 1: FM Model Antenna: EPA Type 1; FM Dipole Antenna (worst-case), 3-bay, full-wave spaced antenna,

note 2: FM Model Antenna: EPA Type 2; PSI FML Type, 2-bay, 0.5 wave spaced antenna,

note 3: FM Model Antenna: EPA Type 1; FM Dipole Antenna (worst-case), 2-bay, half-wave spaced antenna,