

Pet 551

OLD SAYBROOK TOWER - AMTRAK ANTENNAS AND EMISSIONS

<u>HEIGHT</u>	<u>QTY</u>	<u>MFGR</u>	<u>MODEL</u>	<u>GAIN</u>	<u>PWR</u> (watts)	<u>Pwr</u> (dbm)	<u>FREQ</u> <u>RANGE</u> (MHZ)	CALCULATED POWER DENSITY IN mw/cm ²
50	1	DB Products	DB-616	5.3	75	48.75	161	0.03484
70	1	DB Products	DB-616	5.3	75	48.75	161	0.01548
100	1	DB Products	DB-616	5.3	75	48.75	161	0.00871
150	2	DB Products	DB-874G45-XY	15.3	80	47.78	935	0.03095
150	1	DB Products	ASP-680	3	75	48.75	161	0.00227

The Amtrak equipment (Part 90) per the OET Bulletin 65 is "categorically excluded" from evaluation to demonstrate compliance with the FCC guidelines. The information is presented for your review.

All antennas are assumed for this calculation to be radiating 100% of the time.

Ground reflection is included in the calculation.

In actual usage, the 161 Mhz antennas radiate on average less than 30 min. per day.

Actual usage of the 935 Mhz radio is 10-15 min/hr

Equation #8 on page 20 of the OET Bulletin 65 has been used for the above calculations

The resultant levels have been adjusted for cable losses etc, and are accurate.

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