

Empire State Mini Master TPO Calculations			Revised	Date	11-Feb-05		
		WPLJ	WQHT	WCBS-FM			
Freq.	MHz.	95.5	97.1	101.1			
ERP	Watts	6,700	6,700	6,700			
Antenna Gain		0.438	0.438	0.438			
Antenna Input	Watts	15,297	15,297	15,297			
Losses							
Feed Line Length	Feet	365	365	365			
Loss / 100'	dB	0.04732	0.04771	0.04869			
Outside Line Loss		0.1727	0.1741	0.1777			
Inside Line Length	Feet	85	99	130			
Loss / 100'	dB	0.0908	0.0916	0.0935			
Inside Line Loss	dB	0.0772	0.0907	0.1216			
Switches	0.02	0.04	0.04	0.02			
TOTAL LINE LOSS	dB	0.290	0.305	0.319			
COMBINER LOSS	dB	0.639	0.558	0.554			
TOTAL LOSS	dB	0.929	0.863	0.873			
	dBW	42.7750627	42.7090627	42.7190627			
TPO		18,946	18,660	18,703			