Table 1

ANTENNA / LINE SYSTEM GAINS AND LOSSES

prepared February 2020 for

NATIONAL CABLE SATELLITE CORPORATION d/b/a C-SPAN

WCSP(FM) Washington, DC Facility ID 68950 Chan 211B 24 kW 216 m

Proposed Effective Radiated Power:	24.000 kW	13.80 dBk
Antenna System		
Shively 6810-4R85S-CF-DA Max Power Gain:	4.585	6.61 dB
Antenna Input Power:	5.236 kW	7.19 dBk
Line and Other Losses 575 feet, 3-1/8-Inch, 50 Ohm	Measured Loss:	0.71 dB
14 feet, 3-1/8 Inch Rigid Line	Loss:	0.02 dB
3 feet, 1-5/8 inch Rigid Line	Loss:	0.01 dB
Transfer Switch	Loss:	0.10 dB
	Total Loss:	0.84 dB
Transmitter Power Output:	6.353 kW	8.03 dBk