

NO. 4 ESS OFFICES

TERMINAL BALANCE REQUIREMENTS

1. GENERAL

1.01 This section specifies the terminal balance requirements for No. 4 Electronic Switching System (ESS) offices. The procedure for balancing No. 4 ESS trunks is found in Section 234-150-001. The form for recording terminal balance measurements (E6006) required for office certification is described in Section 660-460-010. A more general discussion of terminal balance is found in Section 660-460-100.

Note: Through balance tests are not required for No. 4 ESS offices.

1.02 When this section is reissued, the reason for reissue will be given in this paragraph.

2. REQUIREMENTS

2.01 Table A gives the terminal balance requirements for No. 4 ESS offices. Each trunk group in a No. 4 ESS office that requires terminal balance must meet the following specifications:

- (a) At least 50 percent of each trunk group category must be equal to or greater than the median requirement given in Table A.
- (b) Not more than 2 percent of each trunk group may be below the minimum requirement. Any trunk with a measurement below minimum

should be investigated and corrective action taken.

(c) No measurement may be equal to or less than the turn down limit specified in Table A.

2.02 The echo return loss (ERL) and singing return loss (SRL) measurements for trunks that require terminal balance are to be recorded in two methods:

(a) In the circuit maintenance system (CMS) file, display 403, via the 51A test position (Section 234-150-001)

(b) On the manual form, E6006 (Section 660-460-010).

2.03 When all trunks that require terminal balance meet the requirements in this section, the E6006 forms are to be made available to the transmission engineer who has the responsibility for office certification.

2.04 Switchboard balance procedures and requirements are not included in this section. As an interim measure, use the required excerpts from Section 660-473-XXX. A separate section to cover switchboard balance will be issued in the future.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

TABLE A
TERMINAL BALANCE REQUIREMENTS

TYPE OF FACILITY	ERL IN dB			SRL IN dB		
	MEDIAN	MINIMUM	TURNDOWN LIMIT	MEDIAN	MINIMUM	TURNDOWN LIMIT
Intrabuilding	22	16	10.5	15	11	4
Interbuilding 2-wire	18	16	10.5	13	11	4
4-wire	22	16	10.5	15	11	4

Note: Table values are at TP0 and must be adjusted for circuit TP3. Example: TP0, ERL = 22; TP3, ERL = 22 + TP3 + TP3 = 28.