CODE 959 — 1-MILLIWATT, 1000-CYCLE TESTING POWER WITH TIMED DISCONNECT FOR A CHECK TEST TO THE TOLL COMPLETING TRAIN OF A 2-TRAIN NO. 4-TYPE TOLL SWITCHING SYSTEM

Intermediate (intertoll) trunks are divided, depending on their usage, into three grades: via grade, common grade and terminal grade. These grades fall into two classes from the standpoint of transmission. The via and common grades constitute one class, and the terminal grade the other. Terminal grade trunks provide a transmission quality which is satisfactory for connections in which only one intermediate trunk is required. Via and common grade trunks have a higher transmission quality and are used when there are two or more intermediate trunks in a switched connection.

In a 2-train No. 4-type toll switching system, terminal grade trunks have only one appearance on the TOLL COMPLETING TRAIN. Only one appearance is needed because this type of trunk can only be connected to a terminal (toll connecting trunk) and never to another intermediate trunk. Via and common grade trunks have two appearances, one on the INTERTOLL TRAIN and the other on the TOLL COMPLETING TRAIN. An appearance on each of the trains is needed because this type of trunk may be connected either to other intermediate trunks through the INTERTOLL TRAIN or to terminal trunks through the TOLL COMPLETING TRAIN.

Code 959 is used to gain access to 1-milliwatt, 1000-cycle test power located on the TOLL COMPLETING TRAIN in a 2-train No. 4-type toll switching system. The test power is used for checking the ability of common and via grade trunks to complete calls to the TOLL COMPLETING TRAIN. Code 959 does not take place of code 102 on the TOLL COMPLETING TRAIN for testing terminal grade trunks. As outlined in other Bell System Practices, Code 959 is normally used for circuit order tests or when trouble reports indicated a possible circuit trouble to the TOLL COMPLETING TRAIN.

> ***Note:*** Code 959 should not be used in testing trunks containing type "M" carrier channels. Any testing power at a level higher than −20 dbm at the input of the "M" channel will cause the limiter action of the terminal equipment to become effective. This will result in erroneous measurements on these channels.

Schematic drawing SD-68095-01 covers the code 959 test line termination.