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ROUTINE TESTS OF STANDARD TESTING EQUIPMENT

1. GENERAL

1.01 This section prescribes the routine which shall be followed in the maintenance of standard testing equipment used in connection with the maintenance of all telephone plant. This section replaces Section A299.001, Issue B, and is reissued to change the section number and to add the concluding *NOTE.

1.02 Testing equipment covered in this routine includes all portable testing equipment. This includes test tables, test boxes, test wagons, varying machines, current flow sets, voltmeters, ammeters, gauges, electrical measuring instruments and such other testing devices as require a periodical inspection; also such portable test selectors and connectors used for checking the operation of subscriber line equipment whether located in the central office or in repair shops. This does not include test frames, test desks and testing equipment which is permanently mounted on frames or in switchboard sections.

1.03 A complete set of circuit drawings, method of operation sheets, and instructions covering the mechanical and electrical requirements of test apparatus used shall be maintained in each office.

1.04 Current maintenance instructions covering the use of test equipment are furnished in specifications, and B.S.M.P., covering the operation and maintenance of the different classes of equipment, shall also be provided for the use of employees assigned to make routine tests, checks and inspections.

1.05 Information covering the location of primary standards and carefully checked secondary standards, such as standard voltmeters and ammeters and gauges which are used to check the accuracy of the test equipment used shall be furnished employees responsible for the maintenance of testing equipment.

2. ROUTINE TESTS

2.01 Routine checks and inspections of all testing equipment shall be made at least once each year and at more frequent intervals on certain items as determined by close margins or usage.

NOTE: Milliammeters are subjected to uses which from time to time may result in the meters being bumped or result in their obtaining excess or reversed current. If a meter experiences such handling, its calibrations might be affected and its accuracy should be checked.

3. REPAIRS

3.01 The nature of the work involved in checking and repairing testing equipment requires a high class workman having a broad knowledge of the electrical and mechanical requirements of telephone equipment. The employee assigned to this work shall maintain this equipment strictly in accordance with the standards approved by the Chief Engineer with relation to circuits, adjustments, dimensions and timing. All unsatisfactory standards shall be referred through the lines of organization to the General Plant Manager. No repairs to the internal apparatus shall be attempted on voltmeters, ammeters, current flow measuring or adjusting equipment. Defective sets shall be

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returned to the Western Electric Company for repairs or as otherwise directed.

NOTE: Ammeters and voltmeters are usually repaired by either the manufacturer or his agent. This applies also to certain other special apparatus.

4. SINGLE OFFICE EXCHANGES

4.01 In single office exchanges the volume of testing equipment may not justify a strict observance of the provisions of these instructions. Local routines should follow the general provisions outlined herein insofar as required to insure that all testing equipment will meet the requirements for which they are designed.

*NOTE: In connection with testing equipment for which no practices are available, circuit drawings and circuit description sheets should be used as a reference in determining the procedure to follow when checking to see that the test features are functioning as intended.

5. MODIFICATION OF TEST SETS

5.01 No modification shall be made to test sets or test circuits without first securing approval for such modification from the Chief Engineer. This shall be taken to include all test sets, test frames, test desks and testing equipment whether or not permanently mounted on frames or in switchboard sections. Any suggested improvements in design, arrangement, or function of any testing equipment or cases where test methods, test sets or test circuits do not fully meet the requirements shall be referred through lines of organization to the General Plant Manager.