

**POWER SYSTEMS
EQUIPMENT TEST LIST
INSTRUCTIONS**

**Engines and Engine Sets, Motors,
Dynamotors and Drives**

1. GENERAL

1.01 This section summarizes notes and supplementary information and provides a table of contents for Equipment Test Lists covering power plant equipment in Division 159.

1.02 This section is reissued to explain use of the # sign and to add paragraphs 3.04 and 3.05.

1.03 Equipment Test Lists have been prepared for all power equipment which is considered generally to be in use in central offices in the Bell System. However, ETLs have *not* been prepared for power equipments where performance is covered by application requirements, or which are located on customer premises, or which have been obsolete for many years and very few, if any, are estimated to exist. Practices for which ETLs have not been prepared are listed in part 5. In the event that an obsolete power unit does exist for which a standard ETL is not available, an ETL should be prepared locally using blank Form E-5450.

2. TABLE OF CONTENTS

2.01 The following table of contents shows the major categories of power equipment in BSP Division 159 and the associated ETL section in which the maintenance routines are listed.

ETL SECTION	Table of Contents EQUIPMENT/LAYER
159-001-012	Engine and Engine Sets, Layer 159-1
159-001-015	Motors and Dynamotors, Layer 159-4

159-001-018 Drives, Layer 159-8

3. DESCRIPTION AND USE

3.01 The Equipment Test List (ETL) is a list outlining the tests, inspections, and other requirements for proper maintenance of equipment. In addition to requirements covered in the power equipment BSPs, other closely related requirements covered in associated apparatus and miscellaneous BSPs are also included.

3.02 The ETL shows the recommended intervals for scheduling tests and inspections. The intervals shown supersede information in the BSP. The tests must be applied to all units on at least the frequency specified. The purpose of the routine work requirements at the ETL frequency is to prevent accumulated equipment deterioration which leads to expensive repairs or customer service interruptions. Where the # sign appears in the "FREQ." column, it refers to the frequency data following the next # sign in the "EQUIPMENT AND WORK DESCRIPTION" column.

3.03 The routine tests and intervals listed in the ETL are specified to meet the needs of the average office, consistent with reasonable cost. They are intended to establish an effective power system maintenance program. They will be modified as required and as field experience indicates.

3.04 The ETL sections will be updated during a calendar year by the use of supplemental pages printed on green paper. The supplemental pages will show new sections, tests added to existing sections, as well as changes in classification and frequency. When it is necessary to reissue a supplemental page to show additional changes, all prior changes will be retained. The page number,

shown in column "B. S. P." indicates the location in the ETL where the added information will be shown when the ETL is next reissued. A notation should be made on this page to direct attention to the supplemental information. Supplemental pages will be distributed at the same time as the section which dictated the change to the ETL.

3.05 The entire ETL practice for which supplementary sheets were prepared during a calendar year will be reissued in time to allow distribution to field locations by December 1 of the current year. The reissue of the ETL will incorporate all the material carried on the supplementary sheets since the previous issue.♦

4. TEST CLASSIFICATIONS AND DEFINITIONS

4.01 All tests, inspections, or miscellaneous requirements in the power ETL are given an MW classification. The use of this classification is described in 4.02. For simplification, the word "test" is used to mean a test, inspection, or other work requirement which applies to the power equipment.

4.02 *Mandatory Work (MW):* MW tests are tests used to detect actual or potential failures which could result in a severe service penalty and for which indications of failure are missing or obscure. MW tests must be performed at a

frequency equal to or greater than that specified in the ETLs.

4.03 Because of the relatively small number of power circuits or units involved in any office, sampling review techniques are not feasible. Accordingly, all tests are shown as MW even though there are frequent instances where the only effort needed will be to review or check the requirement to determine whether lubricant needs to be added to a bearing or observation of voltmeter will indicate any need for readjustment of voltage regulation control.

5. TEST LIST OMITTED

5.01 Equipment Test Lists have not been prepared for the following sections:

159-108-701
159-110-701
159-110-711
159-150-701
159-151-701
159-155-701
→159-730-701