

SCOPE AND ARRANGEMENT

1. GENERAL

1.01 This section describes the scope and arrangement of "Bell System Practices - Transmission Engineering and Data," which are intended to cover the most desirable practices, methods, requirements and data having to do with transmission engineering. This series of the Bell System Practices is designated as the "AB" series. The practices, which are in sectional form, are prepared with the expectation that they will be used principally by those engaged in transmission engineering work. All this information may also be used for general reference and supervisory purposes.

1.02 This reissue makes provision for enlarging the numbers available for section assignments by prefixing -1, -2, etc. to the customary five-digit number; and brings the text up to date in minor respects.

1.03 Generally speaking, the transmission information has been available in sectional form for a number of years. A considerable part of this information is being transferred bodily to "Bell System Practices - Transmission Engineering and Data," and to a large extent, the descriptive titles covering groups of sections remain unchanged. However, the opportunity is taken for certain rearrangements, including the transfer of the descriptive material formerly found in "Repeater Data," "Carrier Current Systems Data," "Program Supply Practices," and "Central Office Telegraph Practices" to the "E" series of "Bell System Practices - Toll Test Room Operation."

1.04 It is proposed to add to the new "AB" series by continuing as in the past to issue information covering new transmission engineering practices and data in sectional form under this heading.

1.05 As in the past, a flexible system of binding is available so that those sections may be selected and bound together which best meet the requirements of the individual engineer or supervisor. The transmission binders (red binders) which have been used in the past for binding the sections of transmission information or the standard Bell System Practices Common Sense binder may be used. Also, those known as "Binders - Practices" may be employed for master files, etc. If the standard common sense binder is used, the particular division and volume may, of course, be lettered on the back binding and front cover.

2. SCOPE

2.01 In the new "AB" series, the various titles, by which the information has been designated in the past are grouped under six major headings. Provision has been made in the outline for additional titles which may be added later if this is found to be desirable.

2.02 The titles of the six major divisions, together with their numbers, are listed below and the general scope of each of these major divisions is discussed in more detail in subsequent paragraphs.

AB10. General
AB20. Transmission Engineering
AB40. Transmission Data
AB60. Electrical Coordination
AB80. Telegraph
AB90. Educational Training Material

General

2.03 This division describes the scope and arrangement, the plan for issuing practices, checking lists and other such information of a general nature.

Transmission Engineering

2.04 This division includes the titles "Exchange Area Transmission Practices" and "Toll Transmission Practices." These have been transferred to this major division with but little change. In addition, three other titles to be known as "Telephone Repeater Practices," "Carrier Practices" and "Program Transmission Practices" have been provided to care for certain engineering material previously forming parts of "Telephone Repeater Data," "Carrier Current Systems Data" and "Program Supply Practices." As indicated previously, the descriptive material formerly contained in "Telephone Repeater Data," "Carrier Current Systems Data" and "Program Supply Practices," which is required by the test room people, has been transferred to the "E" series of Bell System Practices.

Transmission Data

2.05 This division includes the existing transmission data titles, "Effective Transmission Equivalent Data," "Toll Cable Data" and "Loading Data." These are unchanged as to scope and general lineup. In addition, a new title, to be known as "Basic Transmission Data," has been provided to include general

information which is of interest in many phases of the transmission engineering work. The titles "Vacuum Tube Data" and "Toll Transmission Data Sheets" have since been added.

Electrical Coordination

2.06 Under this division has been included the existing titles "Transposition Practices," "Inductive Coordination Practices," "Supply Systems Data," "Prevention of Internal Noise," "Protection Practices," and "Electrolysis Practices." A more recent addition is "Crosstalk Practices."

Telegraph

2.07 This division includes the titles "General Telegraph Practices," "Telegraph Systems" and "Telegraph Stations and Loops." "General Telegraph Practices" remains substantially unchanged as to scope and general lineup. Existing sections entitled, "Central Office Telegraph Practices" and "Printing Telegraph Practices," are, however, being rearranged under the new titles "Telegraph Systems" and "Telegraph Stations and Loops." Descriptive information formerly included in "Central Office Telegraph Practices" is being transferred to the "E" series, while descriptive information covering teletypewriters will be continued temporarily in the "AB" series under "Telegraph Stations and Loops" with the thought that later this material may be issued as part of some other series.

Educational Training Material

2.08 Transmission theory for use in connection with the educational training work, applicable to a number of different instrumentalities and systems, is included in a number of titles under the general heading "Educational Training Material."

3. CHECKING LISTS

3.01 The checking lists provide a ready means of locating material desired. These checking lists include all sections current as of the date of the list, indicating the latest issue numbers, and the current addenda and

supplementary information. The lists are also useful for checking the status of any issue of the section of practices. These checking lists will be issued periodically.

4. NUMBERING

4.01 The numbering scheme provides a two-digit number to the left of the decimal point indicating the title, i.e., 22 designates Exchange Area Transmission Practices, 63 designates Inductive Coordination Practices, etc. A three-digit number to the right of the decimal point is provided to indicate the section number replacing the previous section designation; for example, in Toll Transmission Practices, Section 1-A becomes .025, Section 7-G becomes .331, etc.

4.02 To provide for greater flexibility and to facilitate keeping closely related material together a basic five-digit number may be expanded where necessary by adding an extra number preceded by a dash (-1, -2, etc.). Each new number so formed will represent a separate section for ordering, indexing, and all other purposes in the same manner as the five-digit number.

4.03 The letter prefix "AB" has been assigned to all sections of Bell System Practices - Transmission Engineering and Data to distinguish them from other series of Practices and to facilitate ordering and stocking arrangements.

4.04 In case the Companies find it advisable to prepare material supplementing an existing section, it is suggested that the material be issued as an addendum, the name of the Company being substituted for the usual rating of Standard, Provisional Standard or Provisional in the upper right-hand corner of the first page.

4.05 A series of numbers in each major subdivision is available for use in assigning section numbers covering practices of local character on subjects or types of equipment which will not be covered by System issued sections.