

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION 600.400.1
Issue 1, June, 1954
AT&T Co Standard

GENERAL

SCOPE

Contents	Page
1. General	1
2. Plan of the Practices	2
3. Numbering System	3
4. Method of Modification to be Followed by American Telephone and Telegraph Company.....	5
5. Method of Modification Recommended for Use by Operating Companies	6
6. Size of Page and Color of Paper	7
7. Designation of Issues	7
8. Suggested Arrangement of First Page of Operating Company Addendum	9

1. GENERAL

1.01 This section replaces Section G10.101.1, Issue 1, and Section WR-G10.101, Issue 1. It describes the general arrangement of the G Series of the Bell System Practices, the section numbering plan employed, and other details intended to facilitate distribution, use, and understanding of the Outside Plant Construction and Maintenance Practices.

1.02 Bell System Practices—Outside Plant Construction and Maintenance, with the exception of those issued locally by the Bell Operating Companies, will be issued and revised by the Department of Operation and Engineering of the American Telephone and Telegraph Company.

1.03 The sectional form in which the G Practices are issued provides a flexible arrangement for meeting the various requirements of the forces who have need for the Outside Plant Construction and Maintenance Practices. Sections should be selected as desired to meet the needs of the field forces engaged in constructing and maintaining the outside

600.400.1

Page 1

GENERAL
SCOPE

plant; the needs of supervisory forces, and for general use or reference purposes.

1.04 The plans for stocking, distributing, and handling the Practices may vary somewhat for the different Operating Companies and should be administered by them. Such plans should include arrangements for

- (a) distribution of the proper sections to those having need for the information, and
- (b) keeping the sets of Practices up to date and free from obsolete sections.

1.05 Checking lists of the active sections and addenda in the G Series provide a means of ascertaining the sections and addenda which (a) are in effect as of the date of issuance of the checking lists and (b) have been cancelled or reissued since the date of the previous issues of checking lists. Also, the alphabetical index of the G Series facilitates reference to specific sections and addenda. The checking lists and alphabetical index will be reissued at intervals depending upon the need for such reissues due to practice writing activity in the G Series or a division thereof.

1.06 In any case where an Operating Company section, addendum, or WR sheet incorporates information contained in a copyrighted American Telephone and Telegraph Company section, addendum, or WR sheet, such copyright information must be shown on the local instruction exactly as it appears on the American Telephone and Telegraph Company instruction.

2. PLAN OF THE PRACTICES

2.01 The practices, methods, precautions, etc., recommended in the G Series are those which, at the time of their issue, are considered the most satisfactory for constructing and maintaining the outside plant.

2.02 The plan of the Practices provides, in general, for covering the most frequently encountered work operations by a section or a group of sections. For specific or special conditions that are not covered, it is intended that as a guide, the same general principles shall be applied as are recommended in other sections of the Practices for somewhat similar conditions.

2.03 Marginal brackets and arrows are used in revisions of Sections (Issue 2 and later reissues) to indicate the principal changes or points of difference from the previous issue. However, where a reissue involves general revision of

the Section, marginal brackets and arrows will not be used. In such cases, the "General" part of the reissued section will state that the section has been rewritten.

2.04 In order to care for those cases where the local Operating Company may have occasion to issue instructions covering a special condition, the use of non-System standards, or matters of local administration that could not properly be issued by the American Telephone and Telegraph Company as a Bell System standard, provision has been made in the G Series for such local instructions. The various arrangements for numbering and identifying such instructions are described in Parts 3, 4, 5, 6, and 7 of this section.

3. NUMBERING SYSTEM

3.01 The numbering plan for the G Series consists of the letter G followed by a 6-digit number, as used on this section. Existing older sections numbered in accordance with the 5-digit numbering plan previously used, followed the 6-digit numbering plan described in the following except that the last digit was not included.

3.02 The general plan of numbering and identifying the sections of the Outside Plant Construction and Maintenance Practices provides for arranging the series by major types of outside plant and dividing the work into its major operations. The standard numbering system, provides a means of associating a **type of plant** and a **kind of work operation**, as described in the following paragraphs.

3.03 The two digits of the section number following the letter G identify the major divisions of the series, as follows:

- G00. to G19. — General
- G20. to G29. — Pole Lines
- G30. to G39. — Wire
- G40. to G49. — Conduit
- G50. to G79. — Cable
- G80. to G89. — Tools
- G90. to G99. — Construction Equipment

3.04 With the exception of the G00.—G19., G80., and G90. Divisions, the major divisions listed in Paragraph 3.03 are subdivided mainly according to the **kind of work operation**. The three digits following the **first** decimal point identify the subdivisions as follows:

.000 to .099 — Description, General Information, etc. (Not used in G80. to G87., and G97. Divisions)

G00.400.1

Page 3

**GENERAL
SCOPE**

- .100 to .199**—Placing Operations. (*See Note)
.200 to .299—Testing Operations. (*See Note)
.300 to .399—Inspection Operations. (*See Note)
.400 to .499—Repair Operations. (*See Note)
.500 to .599—Removal Operations. (*See Note)
.600 to .699—Splicing Operations. (Used only in G50. to G79. Divisions covering Cable and associated apparatus such as Cable Terminals and Loading Coils, etc.)
.700 to .899—Used only in G80. to G87. and G97. Divisions for Tools and Miscellaneous Construction Equipment.
.900 to .999—Reserved for Use by Operating Companies for Local Practices. (Except for G80. to G89. Divisions covering Tools)

*Note—Three digit numbers identifying Placing, Testing, Inspection, Repair, and Removal Operations are used only in the G20. to G79. Divisions covering Pole Lines, Wire, Conduit, and Cable.

- (a) The G00.—G19. Divisions, because of the general nature of the subject matter covered, can not follow the subdivisions which have been established on the basis of the kind of operation to be performed.
 (b) The G80. Division covering Tools follows an alphabetical plan in assigning section numbers using the **key** word of the name as the guide. The key word in the title of the section will be underlined. New and revised sections issued in the G80. Division will be numbered in accordance with the following:

For Key Names Starting with	To be Numbered in
A, B, and C	G80.000.0 to G80.999.9
D, E, and F	G81.000.0 to G81.999.9
G, H, and I	G82.000.0 to G82.999.9
J, K, and L	G83.000.0 to G83.999.9
M, N, and O	G84.000.0 to G84.999.9
P, Q, and R	G85.000.0 to G85.999.9
S, T, and U	G86.000.0 to G86.999.9
V, W, X, Y, and Z	G87.000.0 to G87.999.9

- (c) The G90. Division covering Construction Equipment will be numbered in accordance with the following plan:
 G91.—Vehicles (Operation and Field Maintenance)
 G92.—Derricks, Winches and Associated Equipment
 G93.—Trailers and Associated Equipment

- G94. — Earth Boring Machines
- G95. — Plows and Trenchers
- G96. — Generators, Blowers, and Pumps
- G97. — Miscellaneous Construction Equipment
(See Note)

Note: The G97. Division follows an alphabetical plan based on the **key** word in the title of the section. The key word will be underlined. New and revised sections issued in the G97. Division will be numbered in accordance with the following:

For Key Names Starting with	To be Numbered in
A, B, and C	G97.000.0 to G97.099.9
D, E, and F	G97.100.0 to G97.199.9
G, H, and I	G97.200.0 to G97.299.9
J, K, and L	G97.300.0 to G97.399.9
M, N, and O	G97.400.0 to G97.499.9
P, Q, and R	G97.500.0 to G97.599.9
S, T, and U	G97.600.0 to G97.699.9
V, W, X, Y, and Z	G97.700.0 to G97.799.9

3.05 In the case of sections with 6-digit numbers, the last digit (following the **second** decimal point) will be used to identify related practices associated with a particular type of plant and kind of operation. The sixth digit .0 is reserved for use exclusively by the Bell Operating Companies. The remaining numbers .1 to .9 will be used by the American Telephone and Telegraph Company, and may be used by the Bell Operating Companies when desired.

3.06 Where the volume of the subject matter would be so great that a single section covering it would be undesirably long, the information is covered in related subsections having last digits .1, .2, .3, etc., to the extent required. If at a later date it becomes necessary to cover additional information, this can be done by reissuing one or more of these subsections as required, or issuing additional related subsections to the extent required.

4. METHOD OF MODIFICATION TO BE FOLLOWED BY AMERICAN TELEPHONE AND TELEGRAPH COMPANY

4.01 Changes in existing American Telephone and Telegraph Company sections are made by revising and reissuing the section.

- 4.02 Changes in existing American Telephone and Telegraph Company addenda are made either by—
- (a) revising and reissuing the addendum, or
 - (b) revising the section and canceling the addendum.
- 4.03 The use of addenda by the American Telephone and Telegraph Company will be confined to those cases where **additional** information is being furnished and when it is not desirable to reissue the section immediately. Addenda will **not** be used to **change** information appearing in existing sections.
- 4.04 When **temporary** changes in procedures are required due to shortages or to the use of substitute materials or tools WR sheets will be issued. Each WR sheet will bear the number and title of the section or addendum which it modifies.

5. METHOD OF MODIFICATION RECOMMENDED FOR USE BY OPERATING COMPANIES

- 5.01 Changes in sections issued by the American Telephone and Telegraph Company or by an Operating Company may be made by—
- (a) Revising the section and reissuing it as a local Operating Company section. Number and identify the section as outlined in Parts 3 and 7, respectively.
 - (b) Issuing an addendum. The first paragraph of the addendum should indicate the issue number of the section with which it is associated. If the addendum supersedes another addendum this fact should also be indicated. The last page of this section consists of a sample first page showing a suggested arrangement for an addendum issued locally. The paragraph numbers shown in the addendum should correspond to the paragraph numbers shown in the section being corrected. If the addendum covers additional information, paragraph numbers not previously used in the section should be employed.
 - (c) Issuing a WR sheet to cover a temporary change.
- 5.02 Changes in addenda issued by the American Telephone and Telegraph Company or by an Operating Company may be made by—
- (a) Issuing a local addendum to replace the American Telephone and Telegraph Company addendum, or
 - (b) Reissuing the local addendum.
 - (c) Issuing a WR sheet to cover a temporary change.

5.03 It is desirable to avoid having more than one addendum to a section.

6. SIZE OF PAGE AND COLOR OF PAPER

6.01 The size of the pages will be 4 inches by 6-7/8 inches. The top edge will be suitably perforated to facilitate arrangement and binding of the sections in standard binders provided for this purpose.

6.02 In order to provide means for readily identifying the sections, addenda and WR sheets, the sections will be printed on white paper, the addenda on pink paper, and WR sheets on blue paper.

7. DESIGNATION OF ISSUES

7.01 Instructions issued by American Telephone and Telegraph Company are designated as follows:

(a) **Sections** carry the section number, issue number, date of issue, and the rating (AT&T Co Standard or AT&T Co Prov. Std.) in the upper right-hand corner of the first page as shown on this section. When a section is reissued without changing the section number, it is given the next higher issue number. If the section number is changed for any reason, the new section is designated Issue 1. For example, in converting from 5-digit to 6-digit numbered section, the new section becomes Issue 1.

(b) **Addenda** carry the section and issue number of the sections which they addend. Each addendum also carries its own issue number, date of issue, and rating as shown in the following. If later reissued, it is given the next higher issue number.

ADD. to G50.606.1, Iss. 2
Issue 1, October, 1954
AT&T Co Standard

(c) **WR sheets** carry the same designations as addenda except that they are not rated as Standard or Provisional Standard.

WR-G10.101.1, Iss. 3
Issue 1, October, 1954
AT&T Co

7.02 Instructions issued by the Bell Operating Companies are designated as follows, in order to distinguish them from instructions issued by the American Telephone and Telegraph Company.

I. Sections issued by Operating Companies

- (a) Issues are designated by **letters** as Issue A, Issue B, etc., instead of by numbers. If later reissued, the issue designation is changed to the next **letter**.
- (b) Company initials or initials indicating the Company and the Operating Area are shown instead of AT&T Co.
- (c) If a local section is issued instead of the American Telephone and Telegraph Company section, it may be assigned the **same** number as the American Telephone and Telegraph Company section. In such cases the designation in the upper right-hand corner of the first page should appear thus:

SECTION G10.224.1
Issue A, October, 1954
C. D. Tel. Co.

- (d) If a local section is issued to cover additional information to that included in the American Telephone and Telegraph Company section it may be given the **same** number as the American Telephone and Telegraph Company section with which it is associated **except for the sixth digit** which would be .0 which is reserved for local Company use. In such cases the designation in the upper right-hand corner of the first page should appear thus:

SECTION G10.224.0
Issue A, October, 1954
A. B. Tel. Co.

- (e) If a local section contains information of a general nature, administrative details, or other instructions of local application it may be numbered in the reserved .900 to .999 groups within each major subdivision of the Practices such as G10.900 to .999, G21.900 to .999 etc. In such cases the designation in the upper right-hand corner of the first page should appear thus:

SECTION G10.900.1
Issue A, October, 1954
B. D. Tel. Co.

II. Addenda issued by Operating Companies

- (a) Addenda issued by the Bell Operating Companies are **identified** as described in 7.02 (I) (a) and (b) for sections issued by the Bell Operating Companies. Addenda carry the same section **numbers** as the sections which they addend—whether American Telephone and Telegraph Company sections or Bell Operating Company sections. In such cases the designation in the upper right-hand corner of the first page should appear thus:

For addendum to American Telephone and Telegraph Company Section—

ADD. TO G10.224.1, Iss. 2
Issue A, October, 1954
C. D. Tel. Co.

For addendum to Operating Company Section—

ADD. TO G50.913.1, Iss. B
Issue A, October, 1954
C. D. Tel. Co.

III. WR sheets issued by Operating Companies

(a) Identification same as for American Telephone and Telegraph Company WR sheets except that letters are used for Issue, and Operating Company initials or initials indicating the Company and the Operating Area are used instead of AT&T Co.

WR-G50.913.1, Iss. B
Issue A, October, 1954
C. D. Co.—W. AREA

8. SUGGESTED ARRANGEMENT OF FIRST PAGE OF OPERATING COMPANY ADDENDUM

(Specify copyright information)

BELL SYSTEM PRACTICES ADD. TO G , Iss. 1
Outside Plant Construction Issue B, Date
and Maintenance C.D. Tel. Co.

TITLE OF SECTION

GENERAL

This addendum relates to Paragraph 3.03 of Section G , Issue 1, and supersedes Addendum, Issue A. Make the following changes in the section.

3. OPERATION

3.03 (Show revised wording or otherwise indicate change.)

Addendum to
Section G

Title

G00.400.1

Page 9
9 Pages

**GENERAL
SCOPE**