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BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G63.120.1
Issue 1, November, 1953
AT&T Co Standard

ELECTROLYSIS DRAINAGE WIRE CONSTRUCTION

GENERAL

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1. GENERAL

1.01 This section and other sections in this group cover general information on drainage wire construction. Specifications 4633, Electrolysis Drainage Wire Construction is replaced.

1.02 The work shall conform with standard practices and shall be so done as to prevent accidents to employees, to the public and damage to property. Care shall be taken to avoid interference with traffic.

1.03 Connections of electrolysis drainage wires to foreign conductors or equipment shall not be made by Telephone Company employees except on specific approval by supervision and in the presence of a representative of the foreign company.

1.04 Plans showing the work in detail will be furnished the construction forces. These plans will specify the size and length of wire required and any auxiliary equipment such as electrolysis switches, rectifiers, fuses, etc., to be installed.

1.05 Obtain all permits that may be required for the work and have them available during the progress of the work.

2. CLEARANCES

2.01 Aerial drainage wires shall clear the ground and foreign structures and circuits that are not part of drainage wire construction in accordance with the clearances required for aerial cables.

3. GUYING

3.01 Place guys in accordance with standard guying practices. The size of a guy may be determined by means of the guy rule as follows:

(a) One No. O A.W.G. wire and larger or two or more smaller wires, consider as equivalent to 10 wires.

(b) For a single wire smaller than No. O A.W.G., use next smaller size of strand than is indicated for 10 wires except that 2200 pound strand shall be used when indicated.

(c) Where a single wire smaller than No. O A.W.G. is placed on poles supporting either cable or one or more arms of wires and the line is properly guyed for the existing load, no additional guying is required.

(d) Corner poles shall be guyed when the pull is 5 feet or greater.

3.02 Guy crossarms with unbalanced pulls. Use 203 Galvanized Steel Construction Wire, 134H or 109E Steel Line Wire where the drainage wire is No. 4 A.W.G. or smaller. Where the drainage wire is larger than No. 4 A.W.G., use double the number of wires specified above or 2200 pound strand.

3.03 Attach the crossarm guy to a guy stub or adjacent line pole at about the same height as the crossarm being guyed. Where this is impracticable, place a back guy from opposite end of the arm to the first pole back. In the latter case, the pole having the crossarm with the unbalanced load shall be properly guyed.