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Southern California Area

BELL SYSTEM PRACTICES  
Outside Plant Construction  
and Maintenance

ADDENDUM G31.430  
Issue B, January, 1950-S  
T. P. T. & T. Co.

RESTORATION OF CARRIER CIRCUITS  
USE OF 24A AUTOTRANSFORMER WITH  
HC DROP WIRE

NOTES CONCERNING THIS ADDENDUM

This Addendum has been reissued to provide for the substitution of HD wire for HC drop wire. It also supplements Section G31.430 with additional information regarding the installation of 83-A protector mountings and the field of use for the 24A Autotransformer. These instructions cover a part of the information issued in Section E21.901 and are intended to coordinate the work of the outside plant forces with that of the testboard force.

The cross-reference "See Addendum" should be written in Section G31.430 at Paragraph 4.01 and following Paragraph 1.01 and 5.01 to indicate the addition of new information.

1. GENERAL

1.02 HD wire may be used wherever HC drop wire is specified in Section G31.430.

4. INSTALLATION OF 24A AUTOTRANSFORMER

4.01 The figure shown in this paragraph in Section G31.430 illustrates a typical installation of autotransformers with and without the auxiliary D-159047 condenser. An 83A protector mounting shall be installed in connection with each autotransformer, as shown, unless the omission of open space cutout protection is specified.

5. WIRING OF APPARATUS

5.02 The following general plan should be used as a guide for determining the application of HD wire and 24A Autotransformers, or HD wire alone, where "J" carrier circuits are involved.

(a) When a break (or reroute) does not exceed four spans (approximately 550 feet), 24A autotransformers are not to be used. The gap may be spanned with HD wire connected pair per pair. Each "J" carrier pair should be separated from all other wires by at least 12 inches if possible.

(b) When a break (or reroute) exceeds 550 feet but is less than one mile, a 24A autotransformer should be placed at each end of the break and the gap spanned with HD wire connected pair per pair. Each "J" carrier pair should be separated from all other wires by at least 12 inches if possible.

(c) When a break (or reroute) exceeds one mile, it should be spanned with HD wire connected PAIR PER WIRE without the use of autotransformers. The "J" carrier conductors should be arranged, wherever possible, so that they retain normal spacing and transpositions and are at not less than the normal distance from other circuits.