

PRIVATE LINE DATA CIRCUITS
VOICE BANDWIDTH FOR MISCELLANEOUS DATA
OVERALL TESTS AND REQUIREMENTS

1. GENERAL

1.01 This appendix is issued to:

- (a) Add information to Section 314-010-101 for use when applied to the 400 Data Package or similar types of switching arrangements.
- (b) Clarify the transmission requirements for the 3002 channels when used with 4-wire switching at customer locations.

1.02 (Reserved for future use)

1.03 Throughout Section 314-410-300, references to central office relay switching apply to data switching arrangements using the 400 Data Package located on the customer's premises or in a central office. Exhibit 1 shows a network arrangement using the 400 Data Package.

1.04 The 400 Data Package switching system is designed with a 1000 Hz link loss of 8 db and a middle link loss of 0 db. This results in an overall loss or receive level of -16 dBm. The data set output remains constant at 0 dbm and +13 TLP. Typical levels are shown in Exhibits 2, 3 and 4.

Note: Some early 400 Data Package switching arrangements were designed with an end link loss of 10 db resulting in an overall loss of 20 db.

1.05 *Data set transmitting level adjustment:* The basic design of this network is for an overall

station-to-station 1000 Hz loss of 16 dB. All data sets are to be adjusted to a maximum of 0 dBm total power output at the data set-end link interface resulting in a received data level at the receiving data set of -16 dBm. The 101 and 103 Type data sets are to be adjusted to 0 dBm output at F2 (2025-2225 Hz) and -4 dBm output at F1 (1070-1270 Hz) at this point.

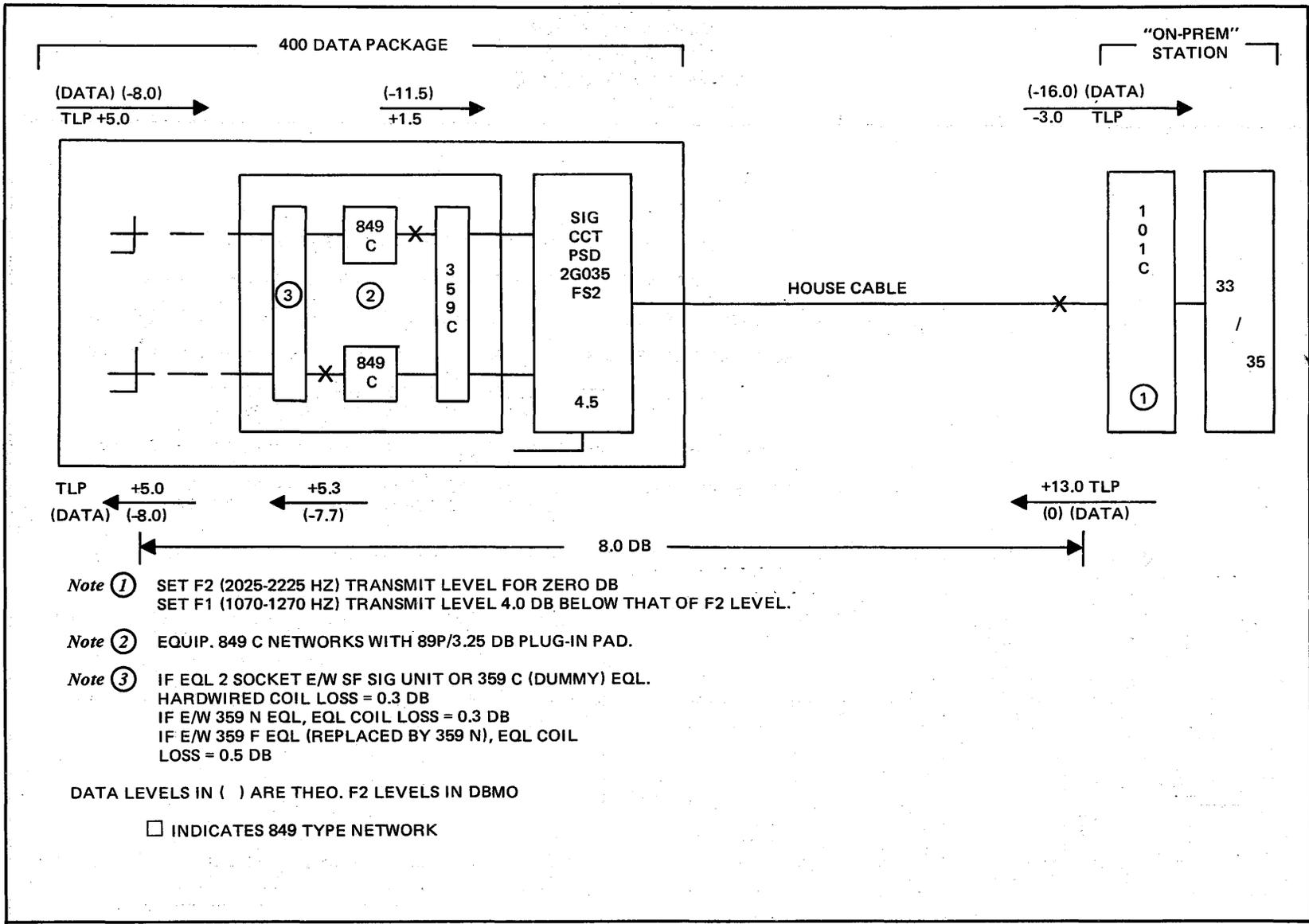
2. TESTING AND LINE-UP

2.01 Each data package will require a 4-wire maintenance circuit terminating at a 10-B or equivalent data test center. These 4-wire test line circuits (line link and marker circuit PSD-2G031-01-B14, FS19) are equipped with DX signalling per PSD-2G035-012-FS1. Since SF signalling is not available in the data package for this circuit, where required, SF signalling must be provided separately in the central offices.

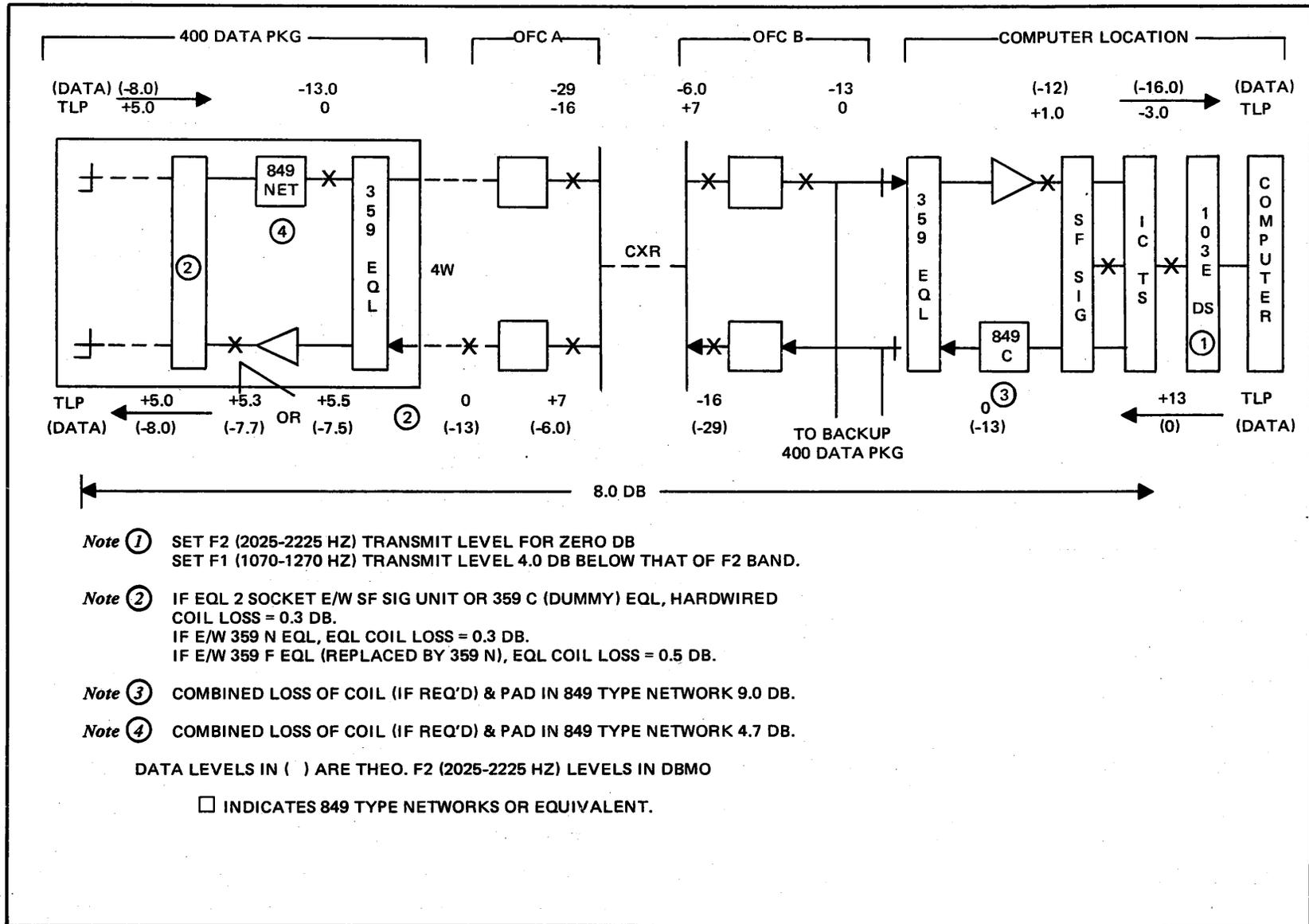
2.02 The circuit net loss from the 400 Data Package to the test center (data access test jack appearance) is zero db. The circuit net loss from the test center to the 400 Data Package will be approximately -2.0db depending upon the transmitting data levels and equipment arrangements at the test center. Maintenance Engineering in each area will specify 10-B data test board equipment configuration to be used. Exhibit 4 shows a typical arrangement. Additional information can be found in Sections 666-301-100PT, Appendix 1, and 666-301-501PT, Appendix 1.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement



Clets
End Link Level Diagram
400 DP "On-Prem" Station
E/W SIG CCT PSD2G035
Exhibit 2



Clets
End Link Level Diagram
400 Data Package
4-Wire Arrangement
Exhibit 3

