

CIRCUIT DESCRIPTION

CD-5D507-01
ISSUE 1
APPENDIX 1M
DWG ISSUE 2M
DIST CODE BT13

5ESS® SWITCHING EQUIPMENT
OSPS-AP
CLUSTER CABINET
CIRCUIT

CHANGES

B. Changes in Apparatus

- B.1 Added essential power strip J89051A-1.
- B.2 Changed fuse from 74P 10 amp to 74F 20 amp.

D. Description of Changes

- D.1 Corrected pinout for alarm wiring from power distribution control panel.
- D.2 Showed boards and power required for eight operator positions, as well as the four positions.
- D.3 Showed drop loop length for cables.
- D.4 Added FS5-7 and CADs 13-15 to show customer premise equipment application and wiring.

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5ESS® SWITCHING EQUIPMENT
 OSPS-AP
 CLUSTER CABINET
 CIRCUIT

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- (d) APS (maximum of twenty-five per cluster)

SECTION II - DETAILED DESCRIPTION

1. POWER AND FUSING (-48V) FS 2

1.01 Two -48 volt dc power buses (-48V (A,B)) and returns of the Central Office (CO) battery plant are connected to the PDP A and B bus.

1.02 The PDP has 32 74F(20A) load and 70G(.5A) indicating fuses. Fused -48 volts is supplied to each CSS and APS from a separate load fuse. The indicating fuse for this load fuse will blow if the load fuse blows, giving an electrical alarm signal and a visual indication. All fuse alarms are converted into one output alarm.

1.03 The PDCP converts the alarm signal to a relay contact closure for the scan point, and provides a signal that lights the bezel Light-Emitting Diode (LED). This unit also has a charge probe to charge circuits that have capacitance.

2. OSPS-AP CLUSTER SUPPORT SYSTEM - FS 3

2.01 The CSS is the centralized operations, administration, and maintenance point for the AP cluster. A CSS is a multi-application platform model 100/central office (MAP100/C) unit configured as a CSS. See document 5ESS® Switch Operator Services Position System Automated Position - Description and Operation (AT&T 250-600-100) for a detailed description.

3. OSPS-AP AUTOMATED POSITION SYSTEM - FS 4

3.01 The APS is a CONVERSANT Voice Information System R2V1 central office platform that contains four or eight intelligent Personal Computer (PC) interface boards (IPIB) and speech

recognition hardware and software to provide the OSPS-AP function. An APS is a MAP100/C unit configured as an APS. See AT&T 250-600-100 for a detailed description.

3.02 Each APS appears to the OSPS as four or eight (IPIB) operator services positions known as Automated Positions (APs). Physically, the four or eight APs and supporting hardware are contained in a single APS unit.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

1.01 None

2. FUNCTIONAL DESIGNATIONS

2.01 None

3. FUNCTIONS

3.01 Provides mounting space for the OSPS-AP units in a 5ESS® Switch cabinet.

3.02 Provides filtered -48 volt dc power from two separate buses (A and B), through a 74-type load fuse with a 70-type alarm indicating fuse, for alarm purposes. All fuse alarms are paralleled at the PDCP to one external scan point alarm. The breaker on the CSS and APS functions as a disconnect only and will never trip.

3.03 Provides 115V AC essential power for peripheral equipment (modems, monitor, terminals, printers, etc.) in the first cabinet.

4. CONNECTION CIRCUITS

4.01 When this circuit is listed on an application schematic, the connecting information listed thereon must be followed:

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OSPS Application Schematic SD-5D135-01
OSPS-AP Cluster Cabinet SD-5D507-01
Automated Position Cluster J5D049A-1
OSPS-AP Power Distribution J89051A-1

5. MANUFACTURING TESTING REQUIREMENTS

5.01 NONE

SECTION IV - REASONS FOR REISSUE

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