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5ESSTM SWITCHING EQUIPMENT
INTERFACE MODULE APPLICATION
SCHEMATIC

SECTION IV - REASONS FOR REISSUE

CHANGES

D. Description of Changes

- D.1 Revised Application Schematic AS 15 to document the -48 RTN interconnection to be contained within the Interface Module. There is no connection to preceding or succeeding cabinets in the line-up.
- D.2 Revised sheet D#2 to document the conversion of an office to an RSM, when the initial engineering of that office does not provide for the conversion.
- D.3 Issued Application Schematic AS 16 to document the introduction of the Remote Network Clock Unit (RNCU) for RSM application.

F. Changes in Description of Operation

- F.1 In paragraph 2.01, add the phrase "K. Remote Network Clock Unit (RNCU)" at the end of the paragraph.

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F.2 Add paragraph "2.05 the RNCU is used only in an RSM application."

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CIRCUIT DESCRIPTION

CD-5D012-01
ISSUE 2D
APPENDIX 1A
DWG ISSUE 3A
DISTN CODE 7T13

5ESS™ SWITCHING EQUIPMENT
INTERFACE MODULE APPLICATION
SCHEMATIC

CHANGES

A. Changed and Added Functions

A.1 Removed

LINE UNIT (J5D004AA LU)
MODULE CONTROL UNIT (MCU)
LT AND SLT FRAMES

D. Description of Changes

D.1 Issues 2D and 3A of the SD are concurrent. See CD
Issue 2D for description of operation.

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5ESS™ SWITCHING EQUIPMENT
INTERFACE MODULE APPLICATION
SCHEMATICSECTION I - GENERAL DESCRIPTION1. PURPOSE OF CIRCUIT

1.01 The 5ESS Interface Module Application Schematic defines all high level interconnections within the interface module (IM) for 7-foot cabinets. The IM is configured to suit the types and quantities of lines and trunks it terminates, by equiptage of various Interface Units (IU), in its Line Trunk Peripheral (LTP) cabinets. Hardware required in every IM is housed in the Interface Module Control (IMC) Cabinet. Each IM is composed of one IMC cabinet and from one to four LTP cabinets, depending on the number of IUs engineered.

1.02 The IM Application Schematic also describes the IM-level circuits, namely:

- A. IM Fuse Alarm Circuit
- B. IM Fan Alarm Circuit
- C. -48V RTN interconnection

SECTION II - DETAILED DESCRIPTION1. IMC UNITS

1.01 The units which constitute the IMC are:

- A. Digital Service Unit (DSU)
- B. Time Slot Interchange Unit (TSIU)
- C. Interface Module Processor Unit (IMPU)
- D. Fuse Panel Unit (FPU)
- E. Filter Unit
- F. Fan Unit (FANU)

1.02 The TSIU and the IMPU exist in two versions: TSIU, TSIU2, and IMPU, IMPU2, with TSIU2 and IMPU2 being later hardware vintages. Both the TSIU and the TSIU2 contain the data interfaces to provide up to 32 Peripheral Interface Data Buses (PIDBs) for the IUs. The IMPU and the TSIU2 contain the control interfaces

* This CD covers drawing issues through 3A. For reasons for change, see Appendix 1A.

which provide up to 46 Peripheral Interface Control Buses (PICBs) for delivery of control information to the IUs. The IMPU can be equipped only with the TSIU in an IMC, and the IMPU2 only with the TSIU2.

2. LTP UNITS

- 2.01 The units which may be equipped in the LTPs of an IM are:
- A. Trunk Unit (TU)
 - B. Digital Line-Trunk Unit (DLTU)
 - C. Metallic Service Unit (MSU)
 - D. Modular Metallic Service Unit (MMSU)
 - E. Line Unit (LU)
 - F. Line Unit Model 2 (LU2)
 - G. Digital Carrier Line Unit (DCLU)
 - H. Digital Carrier Line Unit-Supplement (DCLUS)
 - I. Directly Connected Test Unit (DCTU)
 - J. Facilities Interface Unit (FIU)
- 2.02 The FIU is used only in a Remote Switching Module (RSM) application.
- 2.03 The MMSU and MSU perform the same functions, with the MMSU being a later hardware vintage.
- 2.04 The LU and LU2 perform the same functions, with the LU2 being a later hardware vintage.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

None

2. FUNCTIONAL DESIGNATIONS

None

3. FUNCTIONS

- 3.01 Interbay connection of IM Fuse Alarm leads.
- 3.02 Interbay connection of IM Fan Alarm leads.
- 3.03 Interbay connection of -48V RTN interconnection.

4. CONNECTING CIRCUITS

None