E3-E4 CFA
TECHNICAL SWITCHING LAB
(EWSD LAB)
AGENDA

- Switching systems in BSNL’s Network
- Architecture of EWSD switching System
- Description of EWSD System Units
- Layout of EWSD training Exchange.
- Operational activities in EWSD exchange
- Maintenance schedule for EWSD Exchange
- Registers to be maintained in EWSD Exchange
1. Architecture of EWSD Switching
2. DESCRIPTION OF EWSD SYSTEM UNITS

- Digital Line Unit (DLU)
- Line/ Trunk Group (LTG)
- Switching Network (SN)
- Co-ordination Processor (CP)
- Message Buffer (MB)
- Common Channel Signaling Network Control (CCNC)
- System panel Display (SYPD)
- Central Clock Generator (CCG)
3. LAYOUT OF TRAINING MODEL EWSD LAB

<table>
<thead>
<tr>
<th>SUITE</th>
<th>DEVD</th>
<th>CP 113D</th>
<th>MB/CCG/SYP</th>
<th>CCNC</th>
<th>DLU040</th>
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<td>-2</td>
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<tr>
<td></td>
<td>DLU010</td>
<td>DLU020</td>
<td>LTG SN</td>
<td>SE</td>
<td>DDF</td>
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For internal circulation of BSNLonly
4. TERMINALS IN EWSD LAB.

- Two OMTs (Operation and Maintenance Terminals) with UNIX as Operating system.
- Four X-25 Terminals with UNIX as Operating system.
- Three X-25 Terminals with Windows-N/T as Operating System.
- One PC is being used as SYSD.
5. MAINTENANCE SCHEDULE

- Checking system alarms (Daily)
- Checking status of Hardware units (Daily)
- Checking of lab temperature (Daily)
- Taking APS routine saving (fortnightly)
- Taking APS golden saving (Quarterly)
- Filter cleaning (Six monthly, e.g. 30th June and 31st December)
6. REGISTERS to be maintained in Exch.

- PCM Register: - Record of connectivity
- Faults record log book: - All the faults are recorded.
- AC register (Temperature Record Register)
- Subscriber Record Register: - All the subscriber’s data are recorded
- Data Operation: - Data related to routing, configuration of systems etc. are recorded.
REGISTERS to be maintained in the Exch.

- Register for Spares: - Details of all spares available in the exchange.
- Faulty PCB register: - Details of the faulty card and its repairing details.
- APS saving Register: - Details of fortnightly and quarterly APS savings.
Conclusion:  Now it is known to trainee that:

- What is a Switching systems?
- What is the Architecture of EWSD switching System?
- Describe the Various units of EWSD switching System?
- Draw the Layout of EWSD training Exchange?
- What are the Operational activities carried out in EWSD exchange?
- What are the Mtce. schedules for EWSD Exchange?
- What type of Registers are maintained in EWSD Exch.?