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भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

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Dated 06-06-2013

To
All Chief General Managers
Telecom districts and Telecom circles

Subject: Temperature & Humidity control in New Technology switch rooms.

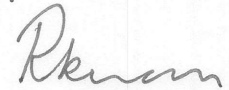
The NT switches installed in the network are having their first line operation and maintenance done by BSNL staff. The second line maintenance is done by the OEM switch vendor under the Annual AMC arrangement. It has been brought to knowledge of this office that in spite of the mandatory technical guidelines for the maintenance of proper temperature and humidity for the proper functioning of the NT switches, in many of the locations proper care regarding the temperature and humidity control is not being followed. Even the thermometer for monitoring of temperature is kept at a location far away from the equipment and leading to improper temperature readings. The few causes of this condition are as follows:

1. It is observed that in some switch rooms, other technology equipments are installed very close to the equipments. To dissipate this extra heat before affecting the equipment, additional Air-condition vents are not provided.
2. The equipments are not designed to be co-located with other equipments which have heat dissipating fans.
3. During power failure or when a/c plant is not operated, temperature near switch equipments increase and humidity decreases rapidly. The above reasons also contribute to the rise in temperature.

If Temperature and Humidity are not maintained within recommended for longer durations, failure rates can increase. In case the situation is going out of control, it may result in total failure of the exchange and may also result in burning of PCBs which cannot be replaced under the scope of AMC.

In view of the above the NT switches working in the network are continuing their extended life need delicate care. Hence , all the switch in charges may be directed to ensure the Maintenance of the temperature /humidity of the landline switches within the well defined limits. The following steps regarding temperature and humidity control in landline switches may be followed for smooth functioning of the switches and to avoid any failure of the switches/burning of PCBs :

1. The thermometers for measuring the temperature and humidity may be kept at proper location for getting the right readings
2. Maintaining log to record the temperature and humidity of the switch may be ensured by the switch in charges.
3. The switches may be kept at a distance apart for proper heat dissipation and functioning and ensuring space management at the same time .



(Rajesh Kumar)
Addl. GM (NWOI-CFA)

Copy to

1. CGM NCES for information and necessary action please
2. All the NT switch vendors for ensuring the proper maintenance of the temperature /humidity in all the landline switches in coordination with NCES and switch in charges.