[NTC MEMORANDUM CIRCULAR NO. 02-01-2001, January 31, 2001]

REVISED CUSTOMER PREMISES EQUIPMENT INTERFACE STANDARDS AND PROCEDURES FOR TYPE APPROVAL AND TYPE ACCEPTANCE

PREAMBLE

Pursuant to the powers vested upon this Commission and in line with Memorandum Circular No. 1-04-88, otherwise known as the Rules and Regulations Governing Equipment Provided by Customers/Subscribers of Public Networks, the following revised Customer Premises Equipment (CPE) interface standards and type approval/acceptance procedures are hereby approved for implementation:

SECTION 1. General Provisions

a. Type approval is a process by which a CPE is evaluated for conformance to national CPE interface standards, as recommended by ITU-T and/or ITU-R. A CPE is tested and evaluated by undergoing laboratory tests to determine its operational compatibility with the public telecommunications network and to guarantee that when connected will not cause harm and will assure adequate safety for:

1. the end-users, regarding their lives, health and properties;

2. the public telecommunication networks and employees, from malfunction and damage; and

3. the users of the frequency spectrum, from interference and spurious emissions.

In cases where a CPE has already been certified by a foreign approval authority, the NTC and/or its accredited test laboratory may, at its discretion, accept manufacturer's self-declaration, foreign test reports and approval certificates in lieu of local type approval tests, provided, they must show compliance or conformity with the CPE interface standards herein prescribed.

b. Type acceptance is a process by which a CPE may be accepted for use in the country in the absence of established interface standards that correspond to the specifications of such CPE. The CPE is evaluated on the basis of submitted foreign test reports and type approval certifications.

Generally, equipment meeting the CPE interface standards will be granted a certificate of type approval. Equipment with interface specifications that are not included in the established CPE standards may be granted a certificate of type acceptance, on a case-by-case basis.

c. A CPE without having been issued a Certificate of Type Approval or Certificate of Type Acceptance shall not be connected to the public telecommunications network except those CPEs brought in from overseas by individual subscribers as provided in Section IIc of this Circular.

d. Type approval shall be required in the following cases:

— new types/classes, models of CPE intended for connection to a public telecommunications network;

— modification or alteration of a previously type approved CPE or grandfathered CPE circuit and/or associated network interface; and

When there will be a change in trade name and/or model number of a previously type approved CPE, type approval testing may no longer be necessary but issuance of another type approval certificate shall be required under the new trade or model number.

e. Type approval shall not be required for a terminal equipment intended for connection to leased line circuits.

f. Customer Premises Equipment that may be allowed for connection to a public telecommunications network, subject to type approval and the application of authorized rates and tariff charges, are as follows:

1. Private Branch Exchange (PBXs)

2. Key Telephone Systems (KTS)

3. Corded Telephone Sets

4. Cordless Telephone Sets.

5. Special purpose terminal equipments designed to operate in conjunction with central office facilities to receive and transmit data from a subscriber's location or to operate in a manner that serves public interest. They include but are not limited to:

— Alarm dialing and signaling equipment for industrial, security, fire, instruction and equipment failure applications.

— Traffic Recorder or device for measuring the amount of traffic carried by a group or several groups of switches, lines or trunks and may have the capability of periodically printing a record of that traffic.

— Variation Monitors or devices for sensing deviations in electrical characteristics of a line and capable of providing an alarm or initiating other actions when program of the electrical characteristics are exceeded.

— Multiplexer or device that allows transmission of a number of different signals simultaneously over a single telecommunications channel. Concentrators are included in this heading.

6. Automatic dialer or a separate device that dials a call automatically over the public network. The device may include the capability to include dial attempts after encountering a busy signal.

7. Automatic Answering Machine or device connected to a telephone line which operates in such a manner that when the user is absent, the device answers calls and gives a recorded message and may or may not provide for recording of a short message from the caller.

8. Call distributor or a device that distributes incoming calls to different operating positions to spread traffic load and increase efficiency.

9. Data communications equipment (DCE) provides the functions required to establish, maintain, and terminate a connection, the signal conversion, and coding required for communication between data terminal equipment and the public telecommunications network. DCE may or may not be an integral part of a computer (e.g. dial-up modem).

10. Data terminal equipment (DTE) consists of digital end instruments that convert user information into data signals for transmission, or reconvert the received signals into user information. The DTE may consist of a single piece of equipment that provides all required functions necessary or it may be an interconnected subsystem of multiple pieces of equipment which together perform all the required functions.

11. Facsimile machine or device employed at the transmit end to convert a hard copy to electrical signals suitable for delivery to the public telecommunications network and at the receive end to convert picture signals to a hard copy.

12. Teleprinter or device having a signal actuated mechanism for automatically printing received message. The device may also include a keyboard for manually sending line signals, a paper tape transmitter and paper tape punch/reader or the electronic equivalent of these (Intended for connection to a telex network).

13. Wireless Paging Receiver using selective radio signal to summon a person, exact whereabouts unknown, to the nearest telephone or to deliver message to the person carrying the paging unit.

14. Cellular Mobile Telephone Subscriber Terminal is a terminal unit connected to the cellular mobile telephone system which is a wide area mobile radio telephone system composed of clusters of cells capable of providing high-capacity mobile as well as fixed telecommunication services by utilizing frequency re-use techniques.

15. Global Mobile Personal Communications by Satellite (GMPCS) terminal equipment connected to a satellite system providing