

**MEMORANDUM CIRCULAR  
NO. 10-11-90**

**SUBJECT: CUSTOMER PREMISES EQUIPMENT INTERFACE  
PARAMETERS AND TYPE APPROVAL PROCEDURES**

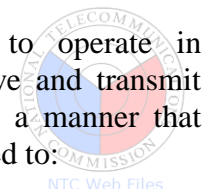
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**PREAMBLE**

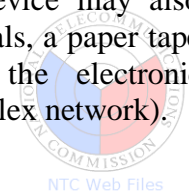
Pursuant to the powers vested upon this Commission and in line with Memorandum Circular No. 01-04-88, otherwise known as the Rules and Regulations Governing Equipment Provided by Customers/Subscribers of Public Networks, the following network interface parameters and type approval procedures are hereby promulgated:

**I. GENERAL PROVISIONS**

- a. Type approval is a process by which CPEs are evaluated for compatibility with the public telecommunications network to ensure that a CPE when connected will not result in harm and will assure adequate safety for:
  1. the user, from any harm caused by the equipment and the networks, regarding his life, his health and his property;
  2. all employees of the network operators; and
  3. the networks, from malfunction and damage
- b. A CPE to be connected to a public telecommunications network shall be duly type approved and shall be covered by a certificate of equipment type approval to be issued by the National Telecommunications Commission.
- c. Type approval shall be required in the following cases:
  - new types/classes, models of CPE intended to be connected to a public telecommunications network:
  - modification or alteration of a previously type approved CPE or grandfathered CPE circuitry and/or its associated network interface : and
  - changes in trade name and/or model number of previously type approved CPE.
- d. In accordance with Memorandum Circular 01-04-88, Customer Premises Equipment which may be allowed interconnection 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. Multi-Function systems such as Hybrid KTS/PBX systems.
  4. Wireless Telephone Sets
  5. Special purpose terminal equipment designed to operate in conjunction with central office facilities to receive and transmit data from a subscribers location or to operate in a manner that serves public interest. This includes but it not limited to:



- Alarm dialing and signaling equipment for industrial, security, fire, and 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 headings.
6. Telephone set if intended as replacement of network operator provided telephones on single line service.
  7. 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.
  8. 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.
  9. Call distributor or a device, which distributes incoming calls to different operating positions to spread traffic load and increase efficiency.
  10. Data Modem or device that converts the signals of a business machine to signals that are suitable for transmission over telecommunication circuit and vice-versa. Also known as a data set.
  11. Data terminal equipment (DTEZ) are equipment consisting 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, which provides all required functions necessary, or it may be an interconnected subsystem of multiple pieces of equipment which together perform all the required functions.
  12. Facsimile equipment or device employed at the transmit end to convert a hard copy to electrical signals suitable for delivery to the public network and at the receive end to convert picture signals to a hard copy.
  13. 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).



14. Wireless Paging Equipment or system using selective radio signal to summon a person, exact whereabouts unknown, to the nearest telephone or to deliver a message to the person carrying the paging unit. Such equipment falls under MC 01-04-88 if it has met the relevant frequency licensing requirements.

## **II. SCOPE/LIMITATION**

The type-approval of CPEs shall be confined to the interface parameters (physical and electrical characteristic) define in.

## **III. INTERFACE PARAMETERS FOR CPE'S**

Customer premises equipment intended for connection with the public network shall in general conform to the Network General Requirements as defined in Annex I.

## **IV. STANDARD TEST PROCEDURE FOR CPE'S**

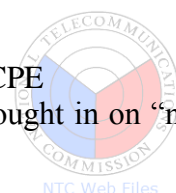
Type-approval testing for CPEs shall be done in accordance with the test procedures specified in Annexes 2.

## **V. MEANS OF CONNECTION OF CPE TERMINALS TO PUBLIC NETWORKS**

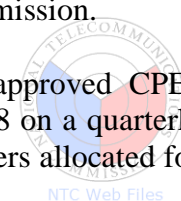
All connection to the public telephone network shall be made through the standard USOC RJ11C jacks and plugs, described under Annex 3. Standard jacks shall be so arranged that, if the plug connected thereto is withdrawn, there shall be no interference caused to the operation of any equipment at the customer's premises which remains connected to the telephone network, shall occur by reason of such withdrawal.

## **VI. ADMINISTRATIVE PROCEDURES FOR TYPE APPROVAL**

1. The distributor/subscriber applicant shall file a type approval request (NTC prescribed application form) with the NTC authorized agency and submit the following documents as follows:
  - a. For individual subscribers with equipment brought from overseas
    1. evidence of payment of tax, import duties and other fees
    2. technical brochures and specification of the equipment
    3. schematic diagrams
  - b. For a dealer/distributor requesting type-approval of a new CPE
    1. certified copy of re-export bond if equipment is brought in on "no dollar import", CB clearances



2. evidence of payment of tax, import duties and other fees
    3. technical brochures and specifications
    4. schematic diagrams
  - c. For equipment radiating RF energy
    1. appropriate permits/clearances from NTC
    2. evidence of payment of tax, import duties and other fees
    3. technical brochures and specifications
    4. schematic diagrams
  - d. For equipment bought locally
    1. original copy of dealers official receipt with corresponding NTC type approval number assigned to each type approved equipment
2. The applicant shall pay the necessary type approval fees to the agency. If the applicant is a CPE distributor/subscriber, he shall install the demo unit at the agency's laboratory. Should, it be impractical to install a demo unit at the agency's laboratory, as in the case of large-sized equipment (such as PABX), the test may be done at the location of the equipment. Any test for PABX's and other large-sized equipment shall not be for a longer period to exceed thirty (30) working days, while for other equipment's, the test shall have a maximum of fifteen (15) working days.
3. Distributor applicants who intend to apply for type approval of another model in the same series of a previously type-approved equipment need not present the equipment for testing but should submit a complete technical manual of such equipment to determine whether the interface circuits are actually the same as the previously type-approved model of the same series. The type approval fee for such an equipment shall be one-half of the fee charged for the previously type approved equipment in the same series. However, if it is still necessary to conduct test on the equipment, the original fee shall be charged.
4. The NTC accredited agency shall then proceed to undertake the actual test as per attached type approval test procedures mandated under Memo Circular 01-04-88 Section 2.d. Test results and all other submitted documents together with the filling fee shall be forwarded to the NTC within five working days upon completion of test for the issuance of the Product Type Approval Certificate. Upon completion of the necessary test, the demo until shall be returned by the agency within five (5) working days after completion of test.
5. No interconnection of a CPE to a public network shall be undertaken unless a Certificate of Product Type Approval has been issued by the Commission.
6. The Commission shall then prepare a masterlist of all type approved CPEs including grandfathered equipment in accordance to MC 01-04-88 on a quarterly basis to include such information as the NTC type approval numbers allocated for



each type approved equipment, the date it was type approved and other relevant information such as type approval requested by name of a subscriber or an NTC accredited supplier.

## **VII. PROVISIONS ON GRANDFATHERED CPE'S**

- a. All CPE's and accessories type-approved by a network operator prior to the effectivity of this memorandum order shall be considered type-approved unless equipment interface parameters are subsequently modified. These CPE's shall be considered as "grandfathered" and may be allowed continued connection to the same public network.
- b. Any CPE legally connected to a public telecommunications network prior to the implementation of this Circular may remain connected to the public telecommunications network without further type approval unless equipment interface parameters are subsequently modified.
- c. A previously type approved CPE brought into the country by a subscriber shall need no further type approval and shall be deemed type approved and may be authorized for connection into the public telecommunications network provided that all required import duties and/or taxes due the government shall have been paid by the subscriber at the point of entry.

## **VIII. REPEALING CLAUSE**

Any circular or memorandum, rules and regulations, which are in conflict with this Circular, shall be deemed superseded, amended or repealed.

## **IX. AMENDATORY CLAUSE**

These type approval procedures and interface parameters may be revised, amended or revoked, as may be necessary, taking into account advancements in telecommunications technology or when public safety and interest so requires.

## **X. EFFECTIVITY CLAUSE**

This memorandum order takes effect within fifteen (15) days after publication and shall remain valid unless otherwise amended, revised or revoked.

Quezon City, Philippines, September 28, 1990.

**JOSEFINA T. LICHAUCO**  
Commissioner

