

WORLD TRADE ORGANIZATION

G/IT/SPEC/Q4/24
23 April 2003

(03-2152)

**Committee of Participants on the Expansion
of Trade in Information Technology Products**

Original: English

SURVEY ON EMC/EMI

Replies to the Survey

Communication from the United States

The following communication, dated 17 April 2003, has been received from the Permanent Mission of the United States.

1. (a) **Does your government have mandatory technical requirements for electromagnetic interference of Information Technology equipment? If so, please identify.**

The Federal Communications Commission (FCC) has mandatory technical requirements for electromagnetic interference from Information Technology equipment. The requirements are found in 47 CFR Part 15.

Information Technology equipment is classified as “unintentional radiators” and is required to comply with conducted emission limits (§15.107) and radiated emission limits (§15.109).

- (b) **Are these requirements harmonized with CISPR 22? If not, please explain the current requirements.**

Line Conducted Emissions

The EMC line conducted emission requirements for Information Technology Equipment are harmonised with CISPR 22.

- Since the power supply of Information Technology equipment may be designed to operate at different power line frequencies or voltages, testing is to be performed separately for conducted emissions with each different power supply that will be installed in the equipment when marketed in the United States or, when a power supply that can operate in different mode, i.e., can accommodate various power line voltages and frequencies, with the Information Technology equipment operating in each mode suitable for connection to the AC power service in the United States.

Radiated Emissions

Information Technology Equipment is allowed to comply with the FCC general radiated emission limits or as alternative may be shown to comply with the limits for radiated emission in CISPR 22 (1997).

- The test procedure referenced in the FCC Rules (§15.31) continues to apply to the testing of ITE when using the CISPR 22 limits.
- Depending on the frequency of operation of the Information Technology equipment, measurements may be required to be performed above 1000 MHz (§15.33) to demonstrate that Information Technology equipment complies with the FCC limits. (§15.109)

2. (a) Does your government have mandatory technical requirements for electromagnetic immunity of Information Technology equipment? If so, please identify.

The United States has no mandatory technical requirements for electromagnetic immunity of Information Technology equipment.

(b) Are these requirements harmonized with CISPR 24? If not, please explain the current requirements.

No, as immunity requirements are not mandatory, compliance with CISPR 24 is voluntary.

3. (a) What conformity assessment procedure for electromagnetic compatibility (EMC/EMI), which includes both interference and immunity, does your government require for approval of information technology products?

Information Technology Equipment is required to be authorized prior to the initiation of marketing using either the Declaration of Conformity or Certification procedure defined in the FCC Rules. The supplier of the equipment may select either procedure to demonstrate compliance with the FCC Rules.

The Declaration of Conformity procedure allows the supplier to declare compliance to the FCC Rules based on testing performed by a recognized accredited testing laboratory.

The Certification procedure allows Information Technology equipment to be certified to the FCC Rules by a recognized Telecommunication Certification Body (TCB).

(b) May suppliers perform these procedures (e.g. testing, declaration of conformity), or must third parties perform these procedures?

Yes, testing by an in-house recognized accredited laboratory is acceptable and suppliers can undertake the testing and Declaration of Conformity (DoC). It is not necessary for third parties to perform these procedures.

(c) What international guidelines or standards, if any, are those procedures based on? If not, what guidelines or standards are they based on ?

For products using the declaration of conformity procedure, testing is to be performed by a testing laboratory accredited to ISO/IEC 17025.

For products using the certification procedure, the third-party certification body is accredited to ISO/IEC Guide 65.

- 4. Has your regulatory authority received any complaint or had any problems regarding the EMC/EMI aspects of the approved information technology products? If yes, how frequent? And please identify the nature of the complaint/problem.**

No, we are not aware of any complaints.
